# FMT Handwritten notes

# MBBS Help

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Name:

Subject: FMT



Application of Medicine in Law. Forensic Medicine

> Affer P.M. => Mannel of death? What is the 10+ ROGISTER thean Natural means death is Umatwal

33 yr old 9; Healthy cond"; visited her friend in hosling; Returned home & had hemsplegia & contusion all over Accident Suicide came of death?

How Many Years (: Marriage) Any Ho Discore - Any HIO Drug infake

Medical Junspydence

in Medicine

How the Law affects oil Profession

I followed only by doctors Medical eriguntos -> anventional Law

of Coursey

g= Not charge for doctors collegue

-> A breech of extiguates is Not punishable

Medical Sthics

Problem (decease; governments)
Perhal /

Moral Principles

> [ Sell imposed ade of

Medical ethics

WARNING NOTICES

ADULTERY (Chains of spents;

ASSOCIATION COVERING

ADVERTISEMENT

ALCOHOL ( Not examine & Johns and)

ADDICTION (Being drug addict)

ABORTION (UNLAWFUL) Ly violates the MTP

Adjective on Small Board & K digital Fee other than chamber Not have than that achetisement Name, qualification

E unqualified, individuals

Like compounder

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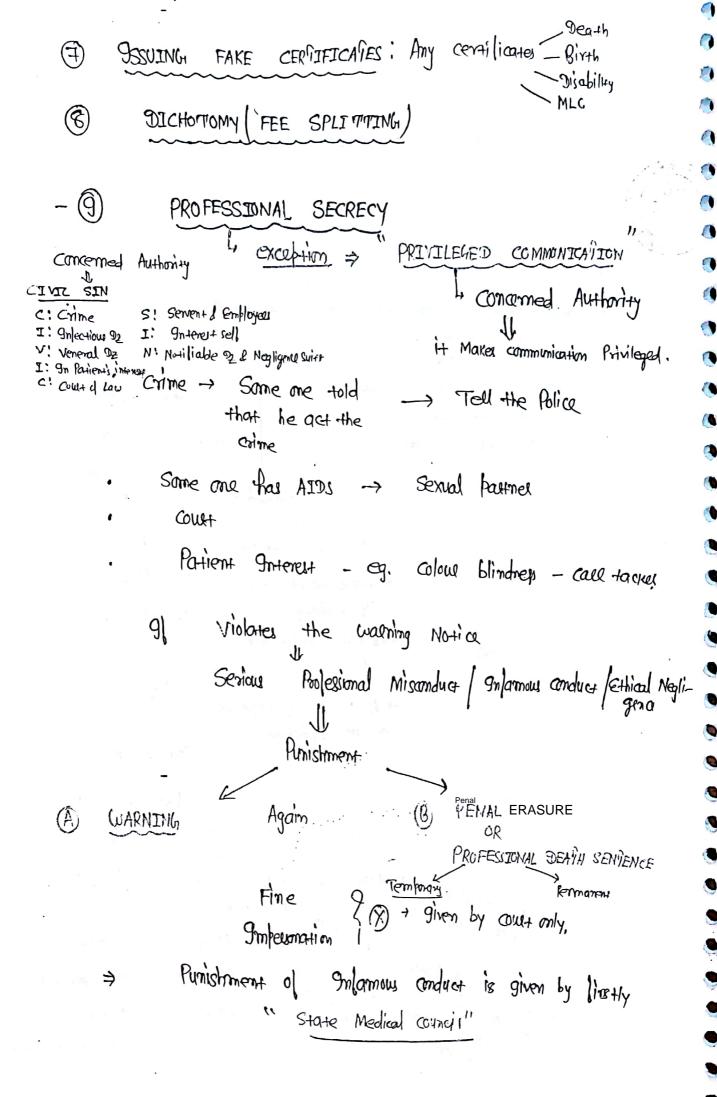
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B Who decides in SMC? > Prolessional collegue in SMC Jí Not happy & the decision; Appleal Central Health Ministry U Forward to The Discipillinary control over Professional - Decide is primarily Maintained in = "State Medical commit(SMC)". LEGIAL PROCEDURE PENAL CODE (1860) > Definition & Punishment of come ( I-P. c) PROCEDURE COURT (1973) => Procedure followed after come CRIMINAL RPC: only in JRK

Crpc: Not valid under section 370

Ranbir Panel and ACT ( 1872) => EVIDENCE NATEUNT Delinition | Relevancy | Recording | Weightage of evidence oral > written to blc d cross-examination CRIMINAL LAW (AMENDENT) ACT, 2013 AMENDED MODIFIED INQUEST Inquiry m+o the cause of death POLICE INQUEST; MAGISTRATE INQUEST; INQUEST; -> Started in 1872; Lout done 1999 (Bombay) 3 + JURY Decide the guilty on MEDICAL EYAMINER INQUERY . -> Best imquest 4 odd No. of Member Wo+ done in India

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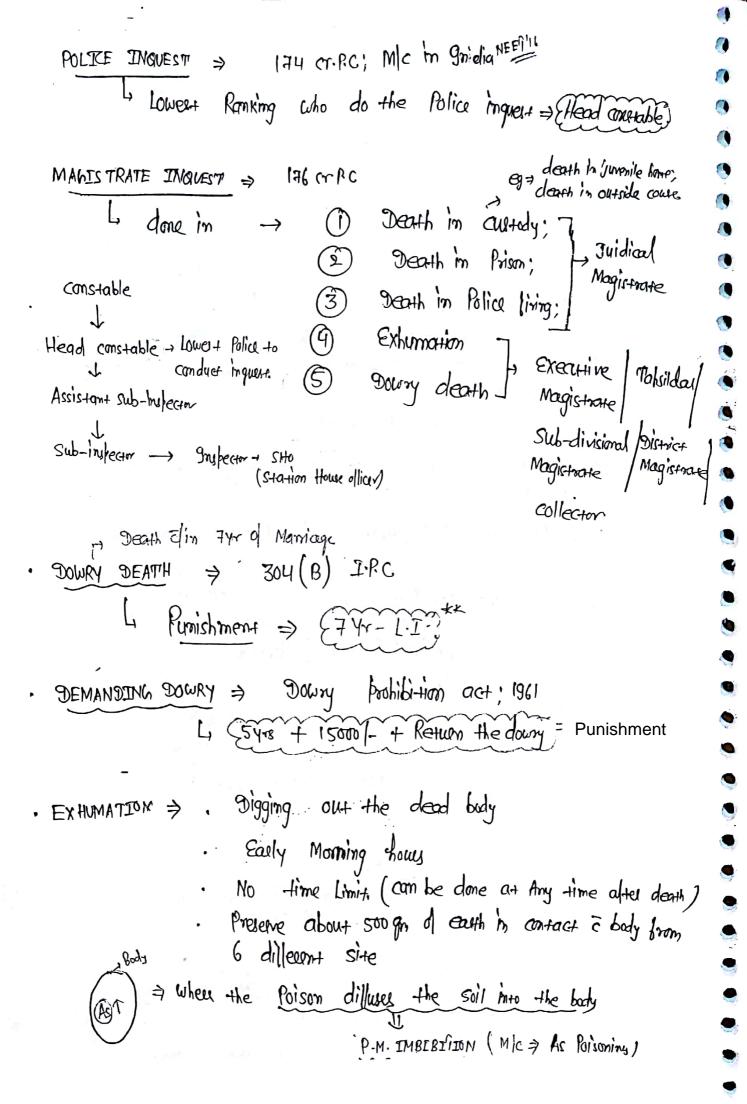
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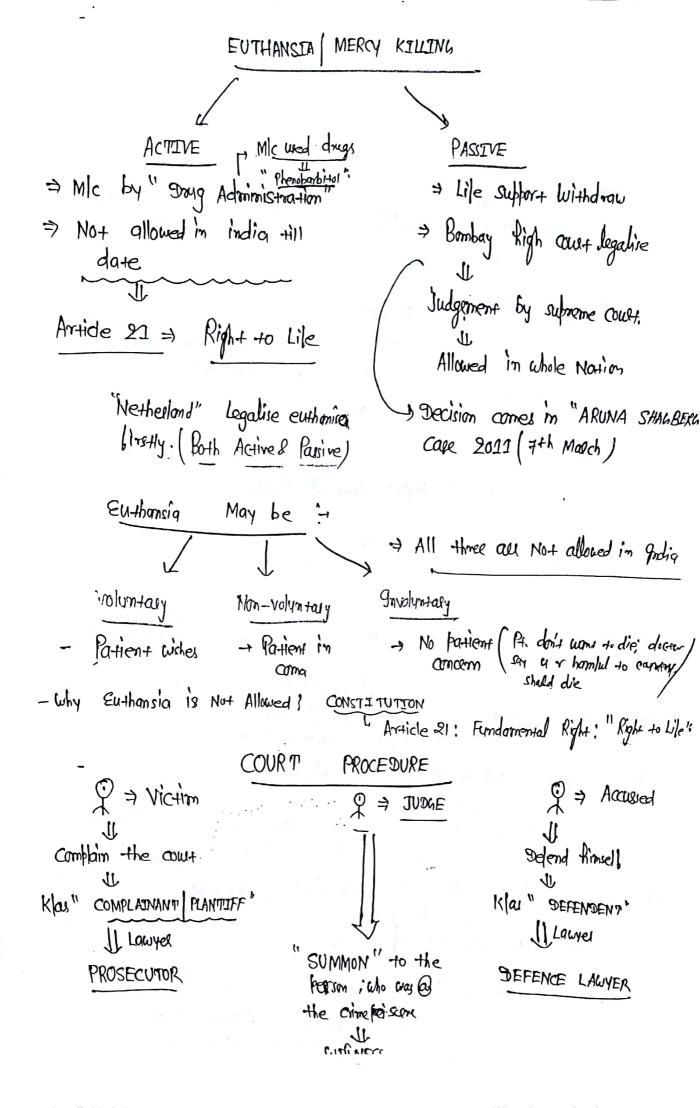
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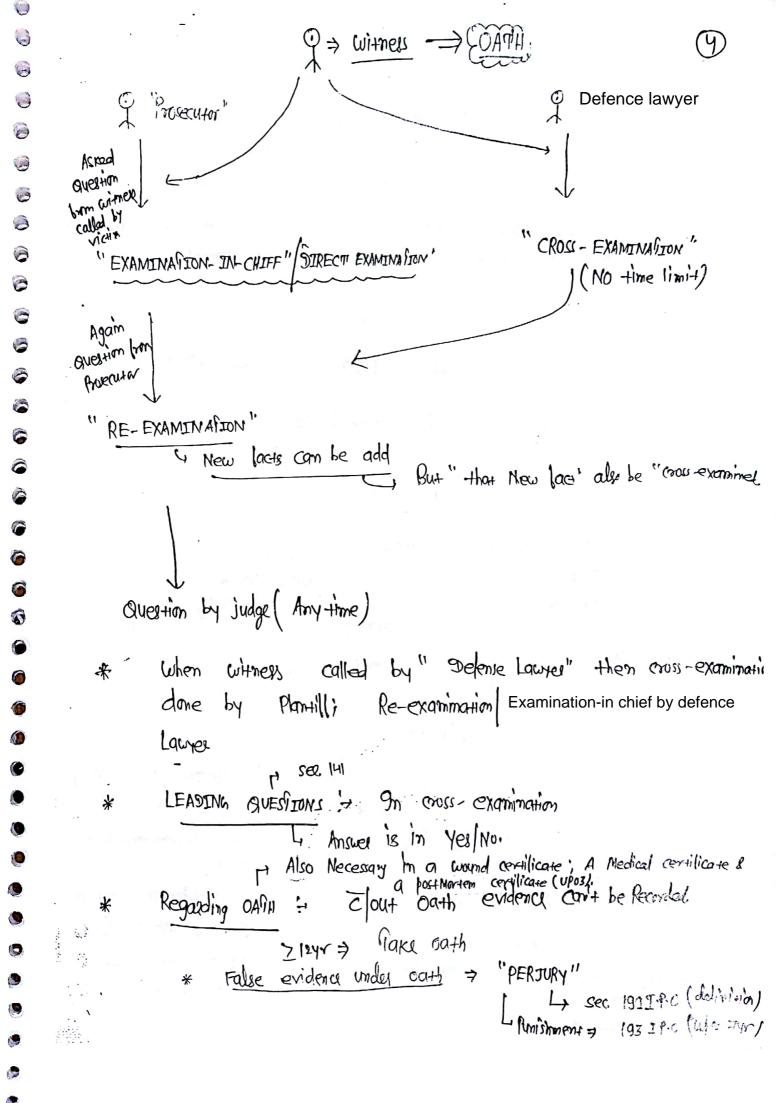
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	The state of the s	
	FINE	IMPERSONATION
	I MAKISTRATE COURT	
6 6 6	1. 2nd CLASS JUDICIAL 5000/- MAGISTRATE	14~
	2. 1st class JUDICIAL 10,000  - MAGISTRATE	34~
6	3. CHIEF JUDICIAL MAGISTRATE No Limit	744
<b>6</b>	(I) SESTION COURTY => Highest court of District	<b>6</b> 0
	1. ASSISTIANT SESSION 11 COURT	104r®
6	2. SESSION COURT	L.I. / Death strutence
6	(II) HIGH COURTY Court of State	
0	SUPREME COURT > Highert court of Nation	
	6: Lowest court who commute the decision?	> High own.
	& Who will grant the Ammesty? => Presi	
ò	full Padan ( gai Him)	• ,
<b>()</b>	High court => Law of State	
0	Supreme court => Law of Nation	
9	a. Lowert court to imprison Maxim for 16417 Assistant sens	rion court





### SUMMON (S.61-69 CTRE)

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Klae " SUBPNOEA"

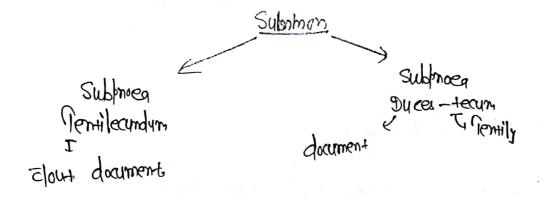
Under Penalty.

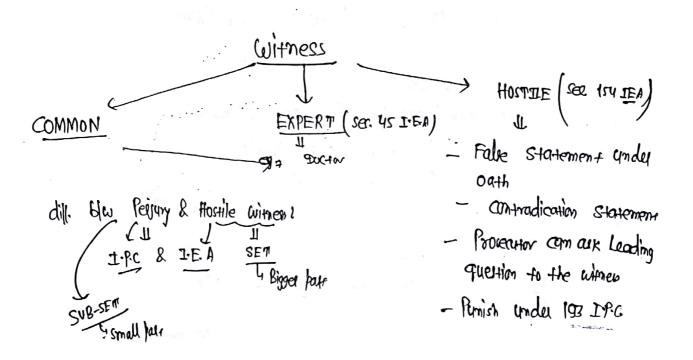
Both civil of criminal com Praichment.

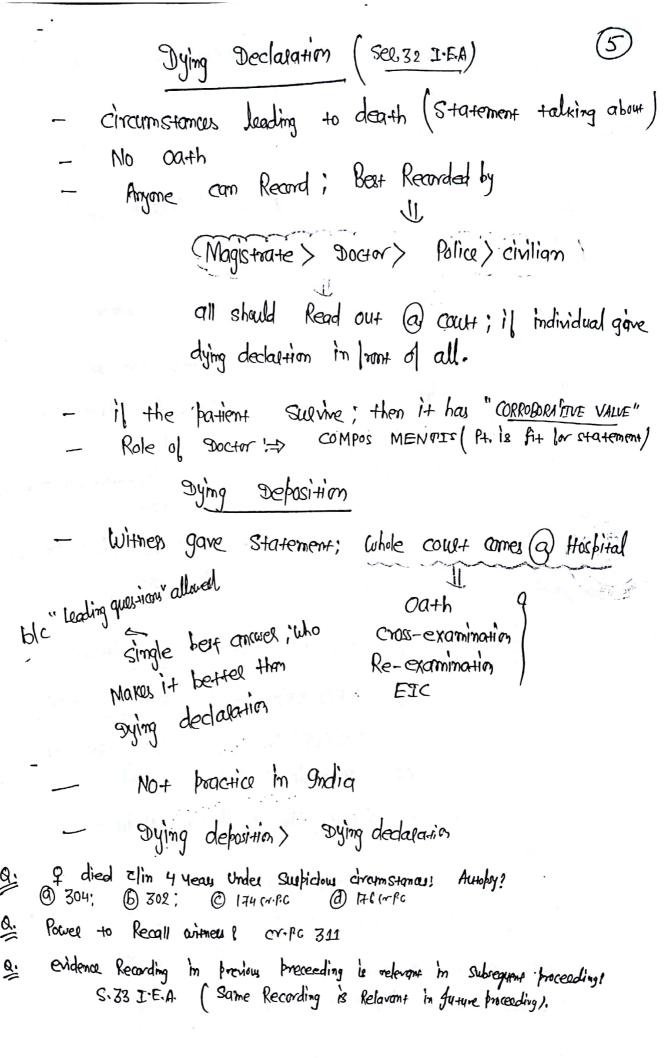
9: Higher court always have printies than lower court; No matter what is the case "civil criminal"

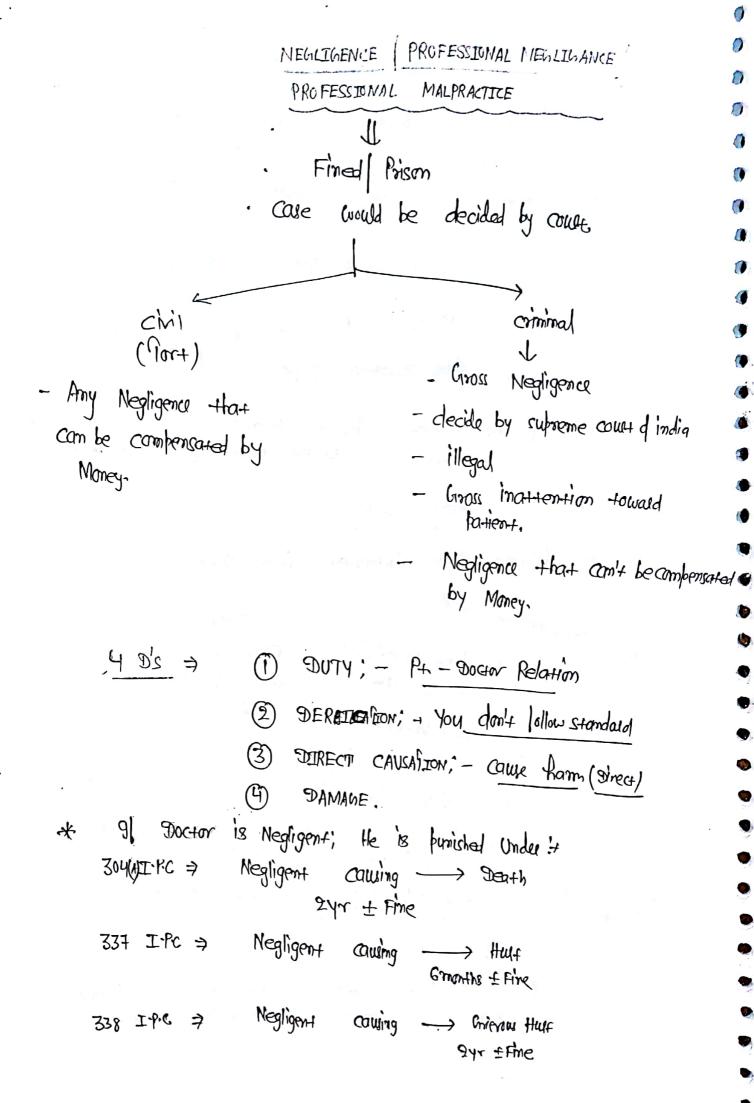
CONDUCT MONEY => Money given to attained summen in civil cases.

DIET MONEY => 9n criminal cases









Sec 270 IP.C > Malignan+ Act Regarding imjections disease

With Intention

24r ± Fine

- \* Delences available to a doctor in a Negligence !

  - (2) Products Liability :=> Manufacturer Negligence for his product.
  - (3) Error of Judgement (=> You decide to go in the interest of Patier
  - (9) Therapeutic Misadventure :> Idiosyncratic Rxn to Doug
    Li Hurth 1200 to 210055 Ar. Fabri; but something Not controllable,
    or Not in My Hand
  - (5) Res Judicata / Euctorine of double Jeopardy !=>
    Li cas el -clos de long el era No Prinish men,
    Rest the decision Rest,
    - (6) Res Indica Limitation period ~240.
    - \* All Above defence com use a civil (criminal both neglence
  - (7) Contributory Negligence (4) Defence only in civil cases

    L. Both Patient Doctor are restonable

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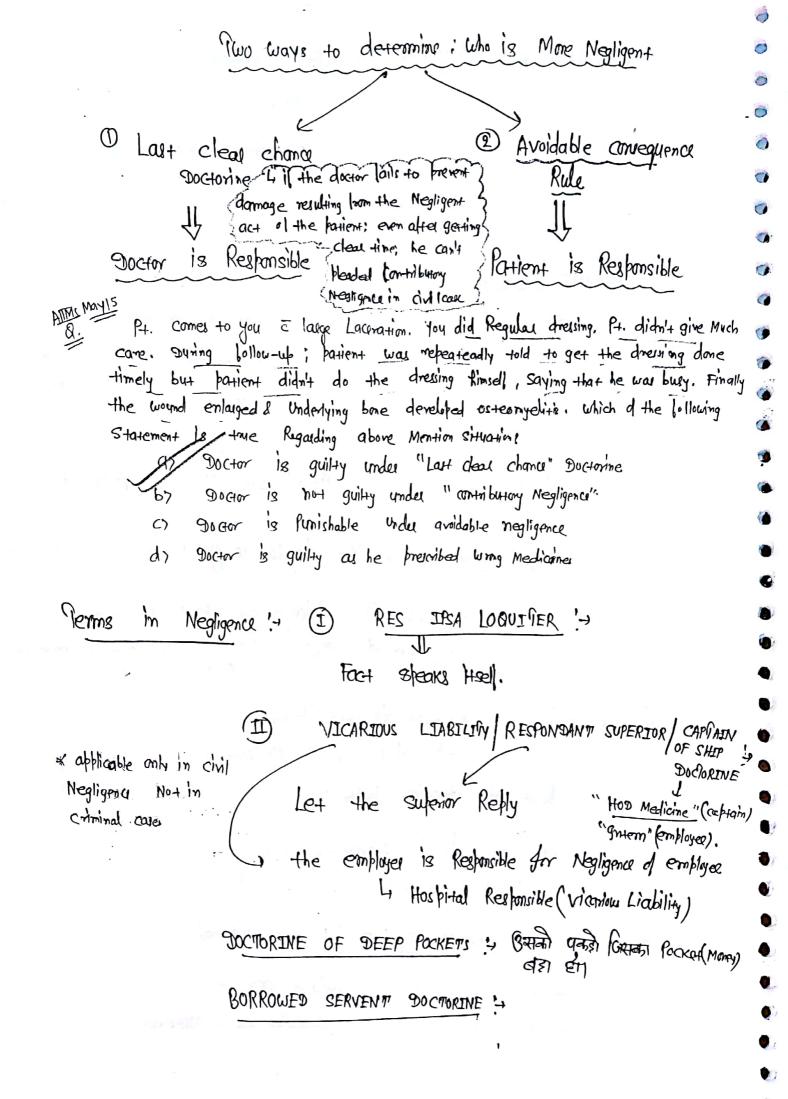
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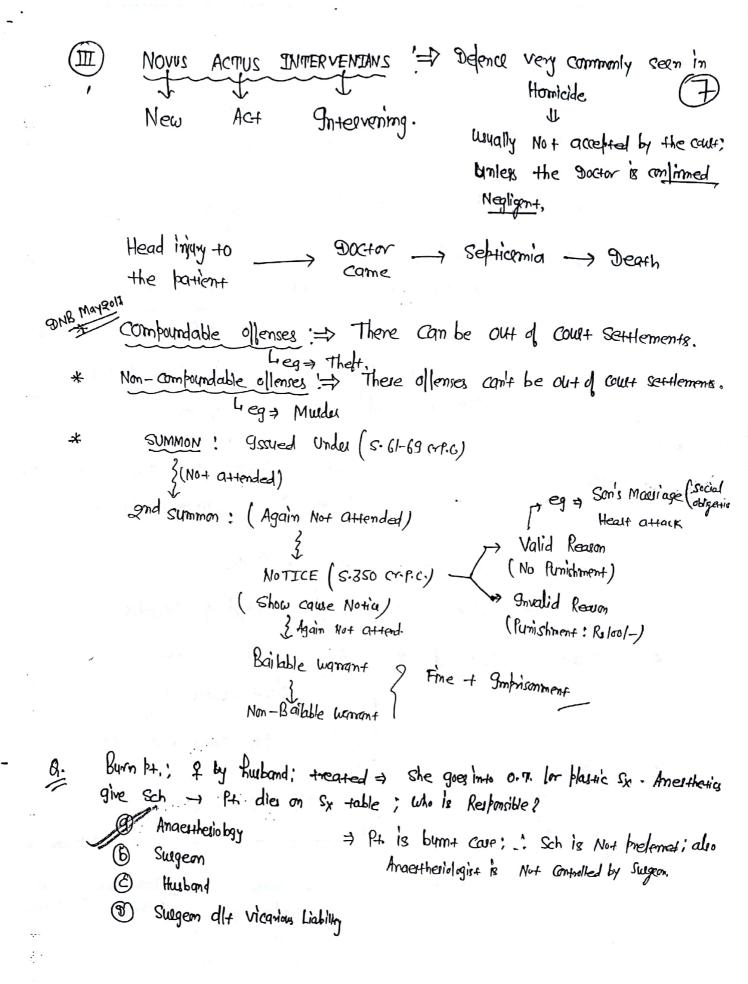
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#### CONSENT

- Sec. 13 - Indian Confract AC+; 1872

- Voluntasily Agreement

EXPRESS

WRIFFEN

IMPLIED = Pt. come in the cabin d

Joctor is not implied

Convent.

given by "specific gesture"

Br chiz: = = Rem & (sheetic game)

0

-> All the consent is valid in court of Law.

-> consent should always be "Informed"

· You are telling Full disclosure to patient.

· exopt => "Therapeutic privileged"

\* BLANKETT CONSENT => Invalid in India

Li consent taken for everything together

\* - consent taken blc of Assault => 3511.P.C

except = protected under 92 I.P.C.

Like Saving R.
Like Saving R.
Like Saving Reasonable delay

Incomed Religal L No B.

(8

CONSENT AGE

(12 yns 12-18yr Z 18 yr.

Can't give consent consent for general All consent

Under IPC 190 Physical examination Under 87 IPC

91 I:P.C => Consent for illegal Act is 9 modid

eg => Muder do foro coment; Not valid (illegal)

Non cognizable

- 2(L) mp.c

eg >

- Arrest à warrant

Hurt.

Thelt,

#### SECTIONS

OFFENCES

cognizable

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- Arrest Elout Warrant

- 2(c) cr.P.C

eg=> Muder; Down death;

Rape; Dacoity;

Robberg, Attempted suioide

Ragging;

Grivery Lyry;

Voyeunism;

Stalking;

OFFENCES

Bailable

Police give bail

Non-Bailable

Court give bail

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I.P.C Injury ( Delinition) -. Sec. 44  $\Rightarrow$ Death ( Delinition ) Sec. 46  $\Rightarrow$ Child < 74mg is Not Restonsible sec 82 Ħ Railways Act ! Child 7540s is Rephonsible Gyr old: Panishable for Pulling chain; Not Responsible for Killing Criminal Responsibility of Insome  $\Rightarrow$ Sec. 84 ( Mc Noughton's Rile) | Logal test | Right or wrong test. CURREN'S RULE Not applicable in India DURHAM'S RULE 1 → all are Rule for Gisone Imestible impulse test American Law Institute Rule Federal Law gla person has Insight; then the person is Responsible for crime ----> Insight → (%) => No+ Restronsible Psychosis Meurosis Kleptomania ---> gruight & = Responsible ---> Insignt + (8) > Not Restausible Delinium Responsible No+ Automatism Sleep walking No+ Restansible Restansible Hymosis Restaurible for the act; it his acts Resulted from SURHANG ZMAHAUG Accused is Not Mental disease or delects. A Person is not Resposible; il @ the time of committing the coims; he didn't CURREN'S RULE \$ have ratacity in Reaulaso his rondies

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Sec. 299 Culpable homicide (Delinition) Mude delinition Sec. 300 Muder (Prinishment) Sec. 302 Homicide (Punishmens) Culfable  $\Rightarrow$ Sec. 304 Intention to kill Silvavity of killing"

Death to be happen MURDER - Intention high; Dead not happen. Sea, 307=ATTEMPT TO 4 (by Impersonation + Ame :- Intention Less; send not happen. Sec. 308 = ATTEMPT CULPABLE HOMICIDE 4 34 hmpersonation + Fine) Suicide Abermen+(Barthi) Attempt Provoke for Suicide - Phish in 309 IPC Punish in 306 IPC 1 Yes Princhment Non cognizable offence Not Required to Report the Police Public to give information of certain Ollence 1 Not talk about 300 IPC

W -

Granty of Killing is determined by Nature of actions of Accured is

g > Stab once & Rum Away: Chance of Survival! Cultable Homicide

Stab so Many times: No chance of survival: Murder

1

(H) Hurt that endangers lile or causes severe bodily bain for 20 days or unable to bollow ordingry Pusuits Prolession is No+ ordinary Persuits. Any injury; where death can happen DANGEROUS INJURY => Amy Myry; Which cause threaten to Like Part of Ginveous hust. Punishment for voluntarily causing Hurt; Punish= 14n Sec. 323 \* Sec. 324 Punishment for Voluntarity causing Hurt by Dangerous ⊀ Wahons Punishment => 34m. Pynishment for voluntarily causing Gineous Hour Sec. 325 Punishment => 74~ Punishment for voluntarily causing Chriscous Hart by  $\Rightarrow$ \* Sec. 326 Dangrow weapons ; Punishment = 10ym Prinishment for voluntarily causing hult on Bovacation Sec. 334 来 Punishmens => Tomonth + 500/-Panishmen f Sec 335  $\Rightarrow$ anivers hut on provocation lor Pynishmens => 44r+ 2000/-Dangerous weakons => Shooting | Stabing | cutting

Dangerow (weakons => Shooting | Stabing | Cutting

X Stick; > Y (Bruise) => (Sec 334)

(Not danger) Bruise | Li Hust | Voluntarily cawing hurt on provocation.

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voluntarily causing hurt on provocation ( Dandeson, it provocation is Removed then 323 & 324 applicable. Provocation 1.324 1. 324 1. 324 Q: Alms 1.326 Shouts; 2.326 2.326 3.307 Intention to kill; 3.335 3.335 4. 308 4. 304 1 4. 308 thigh -> Bleading by Force to outrage the Modesity of lemale Assaul+ Sec. 354 to outrage the Midesity of lamale 9nsul+ Sec. 509 5 by words (obscene comments) Amenden+ in 2013 : Hamasment Sexyal - 354 (A) Disobing a & im Public 354 (B) Voyeurism 354 (4) Stalking 854(D) > Digital Physical Li via what's app; email who 3 yr Tail (argnizable & Bailable) for the 1st ollend WHO SYT Jail (cognizable & Non-Bailable) for the 2nd offena

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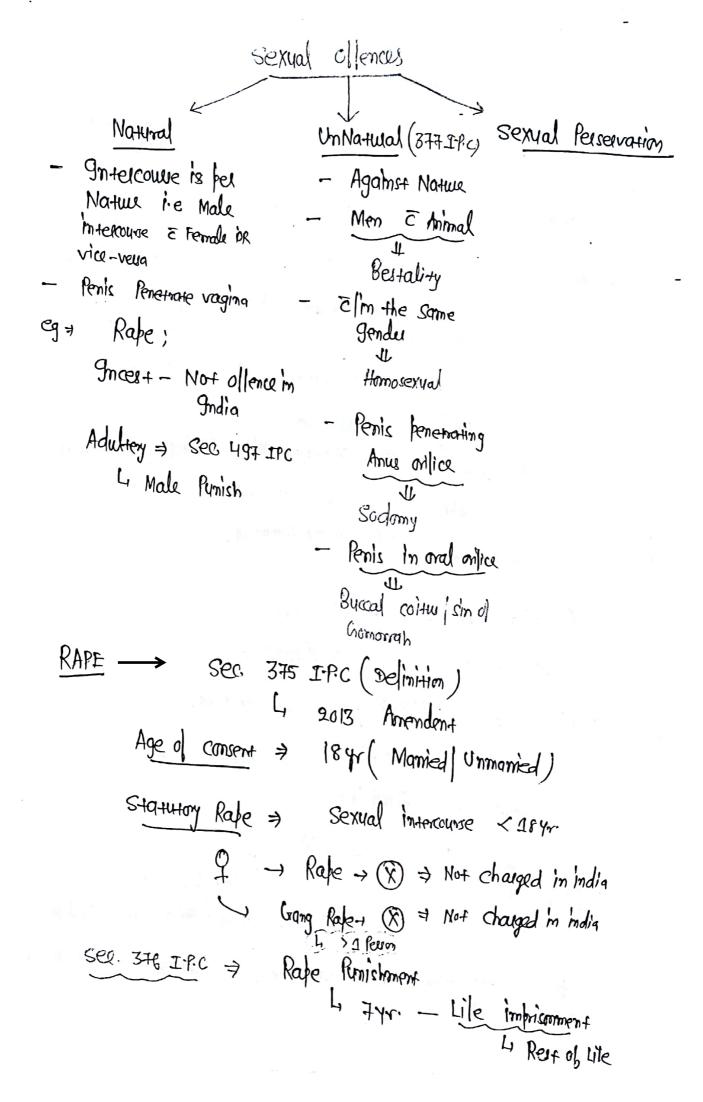
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Sec. 376(A) => Death Occurred

1. victim - Death

Give Death

2. victim - Pechistent vegatorine state

sentence to

coma -> corrical Brain death,

accussed

Sec. 376(B) => Husband - wile Elout consent during separation

2-7 yrs. Bailable (only bailable Rape)

Malital Rape => No Prinishment in India.

Ly Husbornd Ras power to call sex after Marriage

- 96 you have to answer Elout obtion, No ollence; then select 376B.

Sec 376(c) => Sexual Intercourse by a person in Authority

Punishment => 5-10yr

Sec 376(9) => Grang Rabe

Ly Punishment => 204r-L.I.

Sec. 3+6 ( $\equiv$ )  $\Rightarrow$  Death Sentence to accused it he is a Repeat offender.

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Sec. 53(A) Cr.P.C > Medical examination of Rape accussed

- No Need of Consent

- Regulat of Medical examination > Sub-inspector

Sec. 164/A) Cr.P.C > Medical examination of Rape victim

- Consent Required

- for consent 2 12 yrs in this case

- Male Female both doctor can examination in presence of Fernale attendent.

- Test ⇒ · 1-i. Toludiene blue to visualize Micro-lacoration

· Lugol's lodine

The wed for Maxim 4 days after interceuse

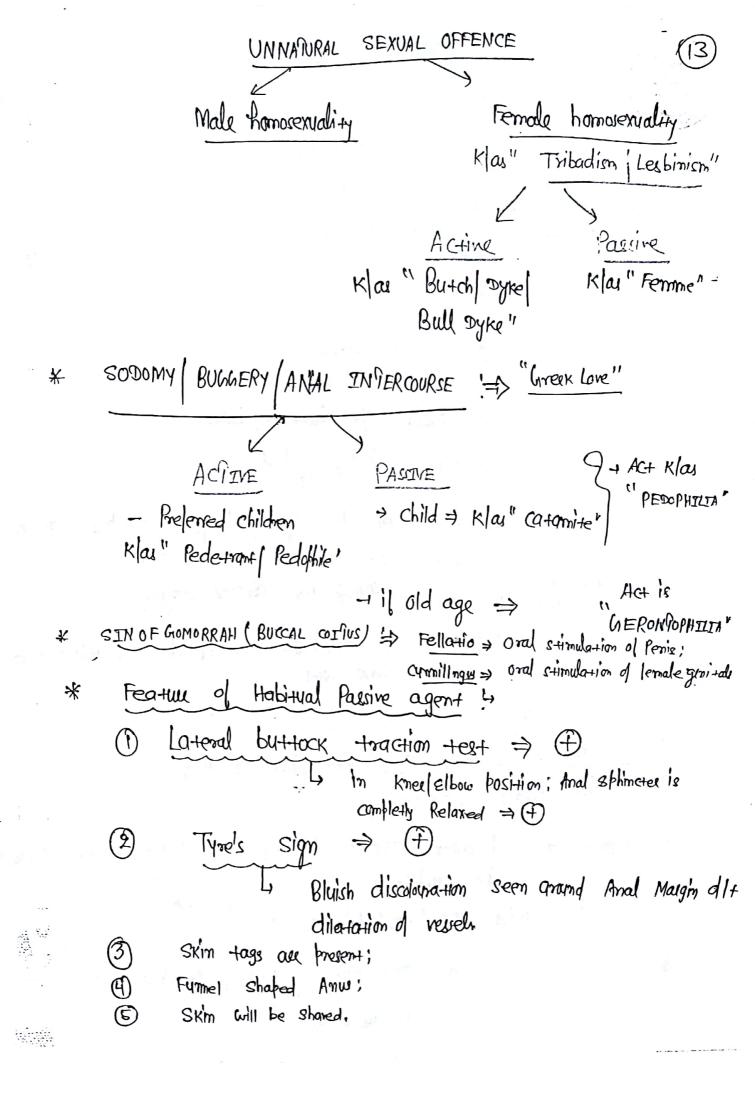
Sec. 327 cripic => In " command trival" done in Rape cases

Misnomer => Limited beable allowed in court,

Sec. 228(A) I.PC > Punishment of disclosing the identity of Rape

Victim

L. Punishment > 2 yr.



```
Sexual Perversation 1 Paraphilia
            Sexual gratilication clout intercurse
SADISM
                  Pain -> Partner;
- MASOCHISM ⇒
                  Paim > Sel
     Li seen in "Autoevotic Asphyxia"
   CO-existing together > "BONDAGE"
FETTICHISM :=> Object of desire
      PARMIALISM > Desire for part of body.
      Klismaphilia => pleasure by use of enema.
    Urophilia | Unadinism = pleasure by sight | urine making a person urine on
    Coprobalia | scotophilia => pleasure by observe Language.
```

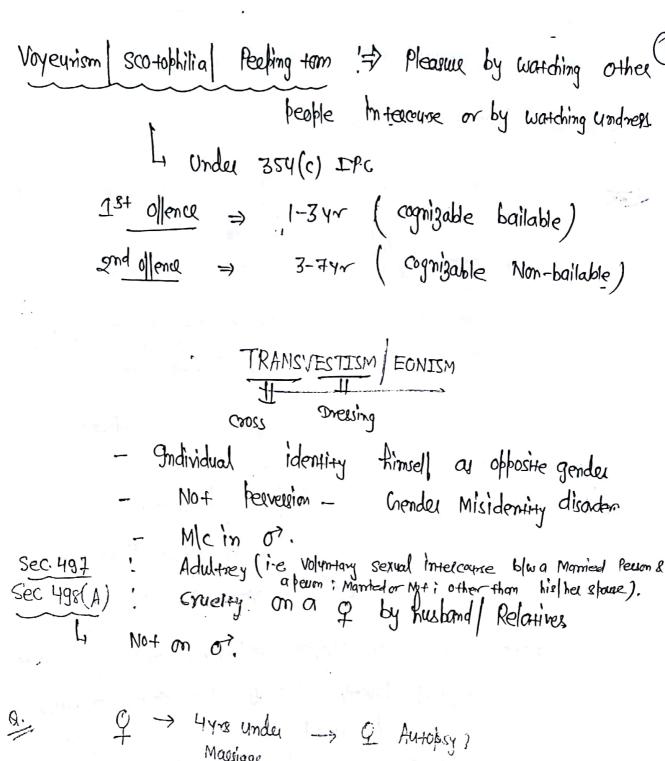
Mai tubation, itsation organism -> Punishable act; if done in Public; other-wise Not.

Punishable sexual Perveration Exhibitionism ⇒ display of private faut in Public Ly Under 294 I.P.C

Frotteurism = Rubbing against brivate bast of Unsuspecting Individual in Public L. Under 354/354(A)/290 IPC

Necrophilia | Necrophagia => 297 I-PC => Showing disrespect to a dead body ea+ L lyr + Fine Love

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Madiage 304 B I.P.C (3) 174 MP.C

(2) (9) 307 Irc 176 mpc

8. Power to Recall a witness ? Under CLBC (311)

evidence Recorded in Lower court; is applicable in higher caut? Q. Under I.E.A. (33)

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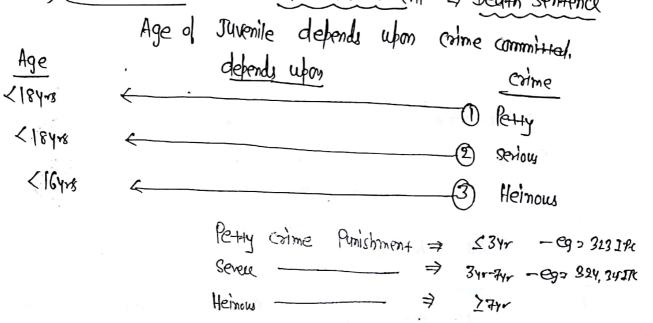
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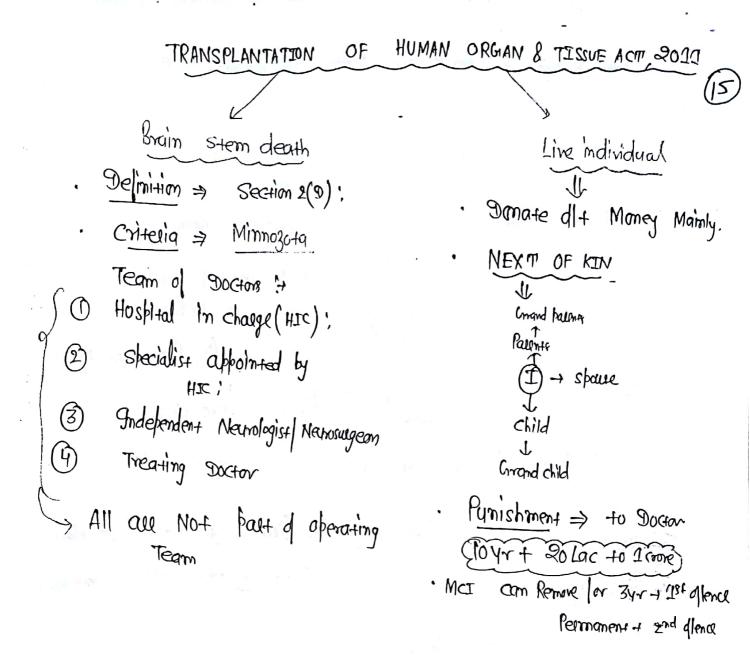
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JUNENILE JUSTICE ACT, 2000
Juvenile; child; Minor > <18 yr.
Juvenile in crime > Juvenile - In-conflict = Law (JCL)
That Means any Juvenile dender Livenile Justice Board
Juvenile actification never contences of 18th class Judicial Magistrate & Principle (or or p) Magistrate & Principle (or or p) Magistrate
Juvenile delinque in contented to  "JCL" & is nevel contented to  "JCL" & is nevel content.  death imporisonment.  Let 1 2 Nho Member    1 - 1 - 1   Myst
Reformatory   BORSTIAL Li Age WHO 21 ym Maxin
Li Age Who 21 ym Maxm
$Max^m$ lumishment $\rightarrow$ 3 yrs.
- Amended 2015; > Maxim Punishmens > Death Sentence
Age of Juvenile depends upon come commissed
Age depends whom crime





LUNANCY ACT, 1912 Reflaced Mental health act 1987 Mental health call act, 2017 ECT - pre-treated & Muscle Relaxant. Permission Iron Medical Review Board (MRB, ECT in child -Advance directions are allowed for a luture Medial illness Overside > MRB

MAIDUI

## 3 309 I-PC => Non-cognizable ollences.

	-	•	0				
	Medical	Review	Board				
Peoples in MRB	=>	$\bigcirc$	मर्शिश <i>ि</i>	Judge			
	2	) Repre	Shit ative	ને ઝોમ	rict Collector;		
	3) 2 Doctor Sychia-terist  Any Registered Practitioner						
		2		Any Regis	itered Practitionel		
	4	. 2 Pe	cople la	om NGO			
il Doctor viole							
	L. Punish	menf =>	6 month	± 10,000	- 184 ollenu		
			z. 4 i	50,000 - <b>\$</b>	ac - and Alence		
Cons	Amer boote	ection A	C+ ; 1987				
We Cam	lile the	Crue a		•	ict form!		
			2		Commission;		
District Forum	Ç	State co	mizim	National	commission;		
3 Member		3 Men	nber		Na-Honal commission		

3 Member

>1 (none

- Limitation period for liling a case In 24%.

   Case decided in 90 days.
- Alter decision appeal in 30 days.

- CORPUS Body of Ollense essense of crime
  - DETERMINE SPECIES :-> Precipition test

    4 Species identification test.
- DETERMINE RACE :- A SKULL :-

CEPHALIC INDEX :- Maximum Bredth of

Maximum Longth of Skull'

SULTCOCEPHALIC MESATICEPHALIC

celtalic → 70-79.1. 75-80-1. 80-85-1.

eg => Pule Aryany; Gridiany Mangoid
Negro

(B) DENTITION => Mongoid => i> Plaum dentism (Bull tooth);

hi> Showed Shape maisor

hii> Absent 3rd Maas

iv> En armels Peach

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Skull

X100

Caucosoids > i) Pointed comine roots;

li) Carabelli's culp

Lextra culp on Maxillary 1st Molar

Negro > i) Large teeth

"Multiple cusp.

DETERMINE GENDER ! Best from Pelvis

Pelvis > 95 + (Best)

Skull -1 90 +.

Long bones -> 80 +.

Pelvis + skull -1 98 -1.

All bones -> 100 -1.

Sternum

i) ASHLEY'S RULE => Manubrium + Body

\[
\geq \lambda \tag{136 mm}
\]

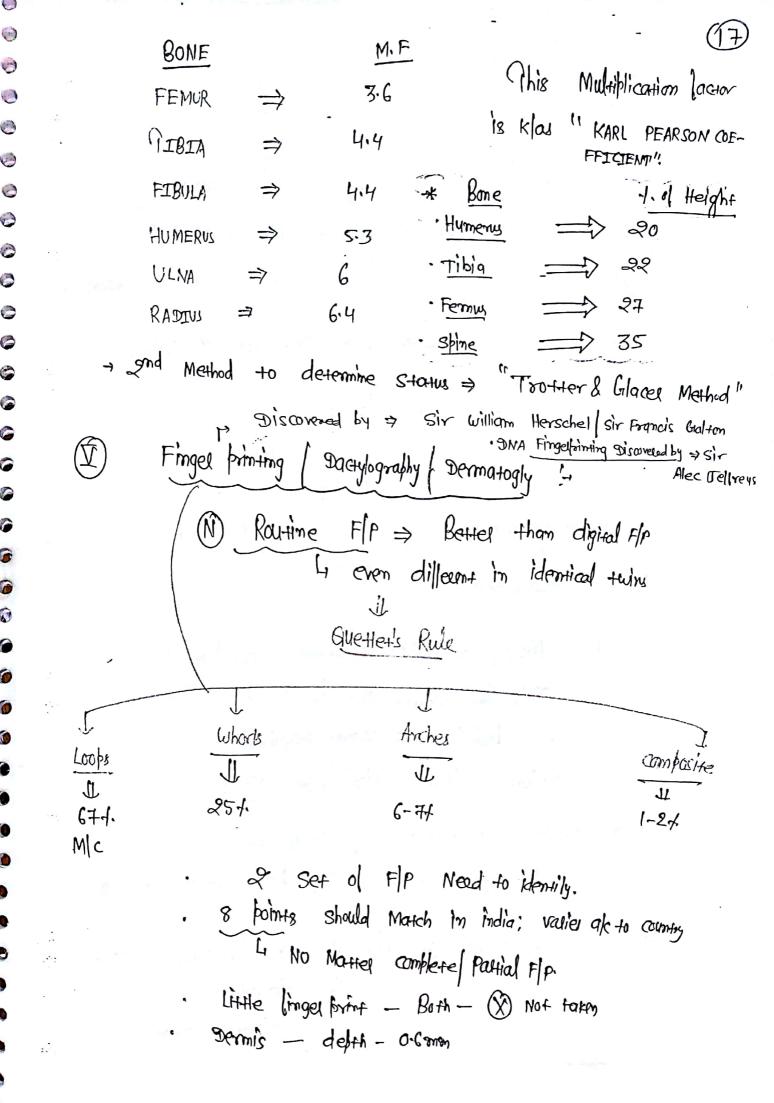
\[
\frac{1}{2} \tag{136 mm}
\]

11) Sternot index => Manubrum
Body
0.54 0.46

DETERMINE STATURE: Statue => Bony Length of Individual,

Length of bone is Measured by => "Helphynn's Osteometric Board"

Length of bone of M.F => Statue



Finger bring absent in - Leprosy;  Gradiation d electrical injury.
CALLIGRAPHY: Study of Hand willing.  POROSCOPY: Study of bores on epidermal Ridges  Primarily wer in partial lingue print  Develop by - LOCARD EXCHANGE PRINCIPLE"
PALATTOPRINT: Taken from Ant. 1/3rd of Palate  CHEILOSCOPY: Lib prints
CHEILOSCOPY : Lip prints  Tsuchi hashi classification  Li 6 tiey
ANTHROMETRY: By "BERTILLON SYSTEM"  Body Measurement,
Mostly axial Lt. side except - one from Rt. ear Only In Adults (Not for child)
No biological steermen Required  carliest criminal Identification system.
SUPERIMPOSITION PECHNIQUE: Skull bone

Ove test is said better in this technique

9DEN/JIFICA/JON BY AGE By Secondary sexual character .7 ① dentition **②** By ossification contre βy

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20 sexual character

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Ossilication centre

By dentition

Tarmer's Sexual

Matuity Rating

In Pedia trice

- 18+ +0 osily Ly claude (sthucek gul)
- 2nd Mandible > 6th week gul
- calcaeneum 5th week of gul
- Talus 7th week of guz
- Lower end of \_ 9th weeked gur [just before Femus
- Ossilication centre@ birth
  - Cybold
  - 4th part of body of Stemym
    - where end of tibia

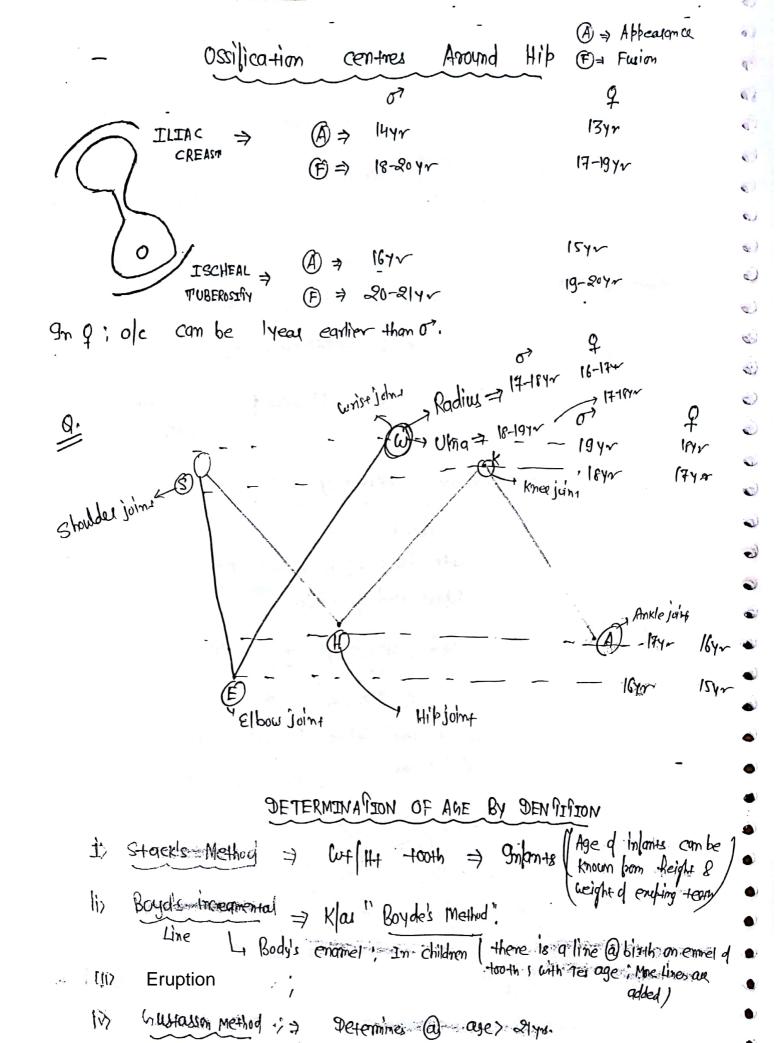
Ossilication centre @ ayr

Head of Rymeny Fermy

- Lower end tibial Fibula
- Capitulum

Q-1248

cartel bone



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Milk

1

1842

Exaption Touth I C PM Temporary = 20 2 102 Permanent 2123 = 32 total temporary tooth to appear - Lower central Indicar temporary tooth to appear = 2nd Molas. Permanent touth to appear -V 8+ Molas 4 64r Permanent dentition Bed Baby Bicupld Cry

Premolar

1812 3yr 2nd

isor Mummy Is In Milk Molar 187 Central Incisor 1 Fyr Last incisor canine Premolar 1 iL 842 1140 10yr Mixed Dentition (6-124r) > Both Temporary + Permanent feath = 20 in No. Smonths (2 tyr)  $\Rightarrow$ 30 -teath = 24 m No. Q 64m 44  $\Rightarrow$ (The Most feath = 28 In No.  $\Rightarrow$ <u>@</u> 44 124r ( 2nd Molas) feeth = 32 in No. <u>Q</u> 184N 44  $\Rightarrow$ (32d May)

No. of Permanent teeth > (Age -5) Ky 1stably ¥ ans. Not come from this; then appl (Age-6) x4 1-2nd diffy

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# M/c extra bermanent tooth => Marillary central Incisor

\* GUSTIAFSON METTHOO '=> Wed In 725 yr age

is Attortion: Top part (Grinding part)

li> Paradentosis: Recession of gingiva:

Hi) 20 Dentine: 2nd Most Reliable palameter; Pull cavity

by comentum opposition: Root part

V7 ROOT Resorption: Least Reliable Parameter

vi) Root transporterny: Most Reliable barameter

Anterior teeth >> Posterior teeth for determination (IIC >> PIM).

DENTAL NOTATION METHOD

I. UNIVERSAL SYSTIEM

II. DIAGRAMMETIRIC SYSTEM

V. FDI SYSTEM (Federation Dentall International):> 2 digit Notation

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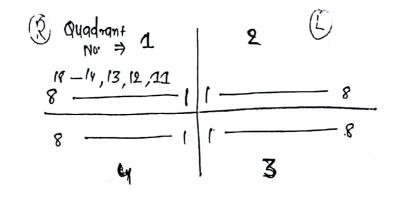
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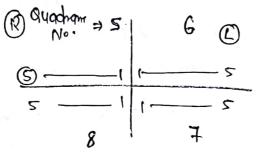




Ocuadrant No. => 1,2,3,4

Used for lemaner

Dentition



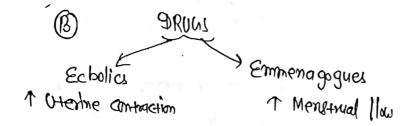
Temporary dentition

\* Miles Method > Age can be known by change of Root transfactory.

\* METHOD OF CRIMINAL ABORTION !

A Abortion Stick => 9 mitant plant calotophis

Rellux Utenine contraction



Mc Complication of comminal Abortion > Hemorrhage

Mc immediate caused death > Shock

Mc delayed caused death > selvis

416 (T.P.C -> Commutation of Death Sentence of @ Lady.

\* il a @ Lady; She can't be hanged during after delivery.

Death Sentence will automatically change to like imperioration for that alknown

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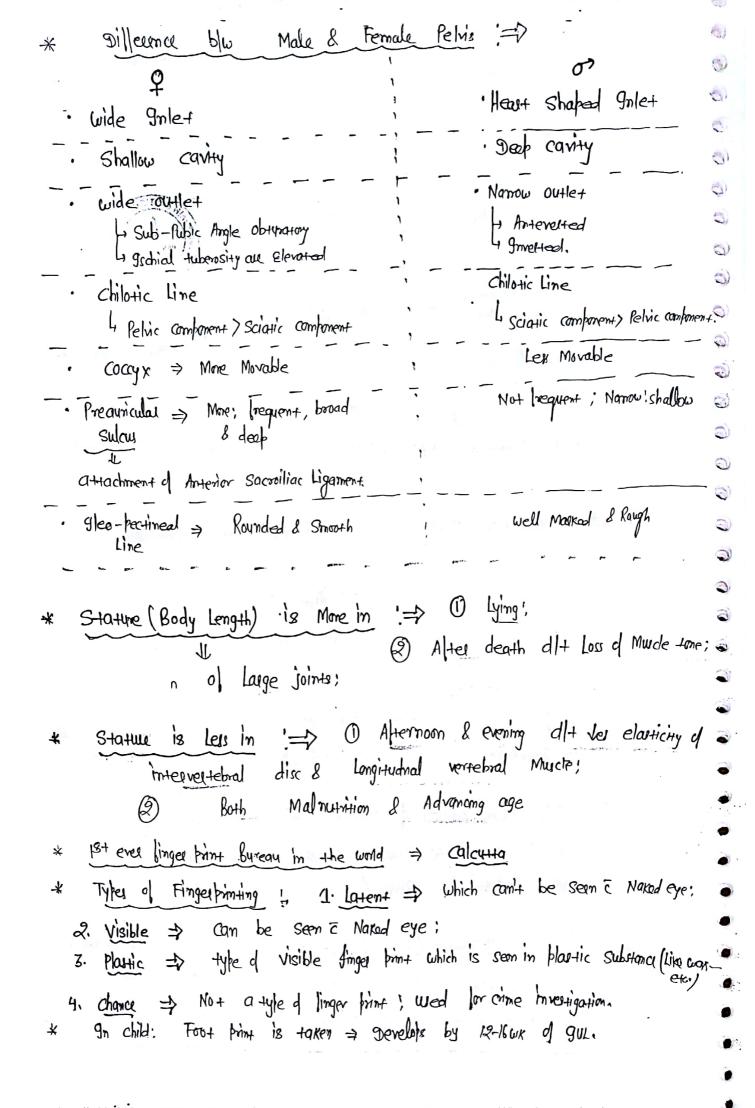
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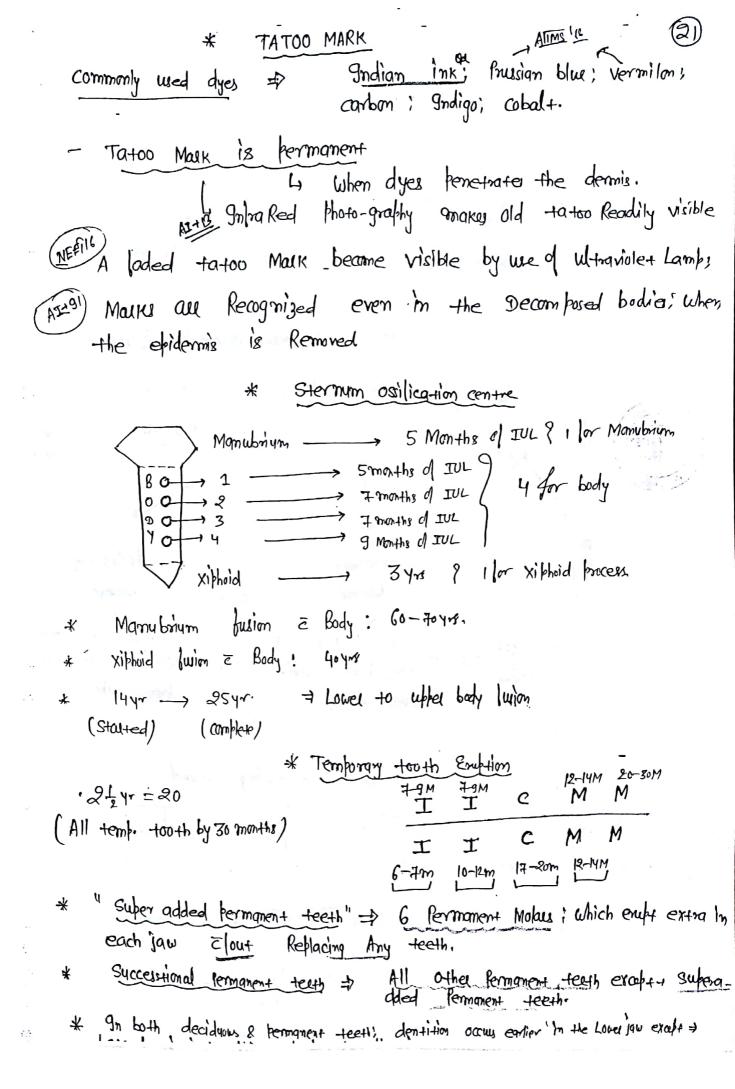
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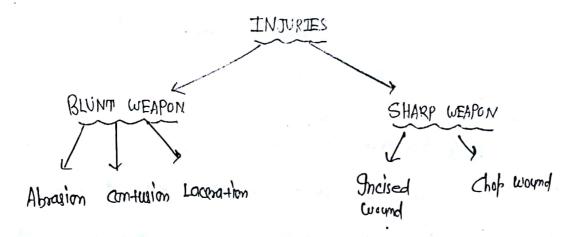


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#### MECHANICAL INJURIES



Stab wound :> Depth > length or breadth of wound

L. An inn. Injection should be stab wound

L. but it enters tissue: Notin cavity >> so "Princture wound"



PUNCTURE

Wound that
enter tissue
(not cavity)

Penetrating Wound

8-tab that enters Cavity but doem't come out. Perlovating

Wound

Stab that enter Cavity of corner out Irom other site

Single edge wound :> Cawes "Fish tailing" wound

- One edge Blunt

- one edge Shaele.

Weaton wound

Fish tailing

Double edge wound :> Cawes "Fish tailing

Touble edge wound :> Cawes "Spindle Shabed wound"

- Both Edge are shall !- ! !- !

O

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Length Depth of the wound Length of the wound Width Thickness Breadth of the wound

### HARAKIRI

- Method of Suicide Japanere
- Honourable death
- Transverse cut over abdomen
- cause of death => Shock & Hemanhage

#### INJURIES - By Blunt weapon Abrasion Laceration Epidermis MOTEUTHOD Demis Nene Blood verses VILLE

Bae · ABRASION Shape of Stab wound defends wom

epidermis alone damaged.

<u>a</u> 8dge wearon;

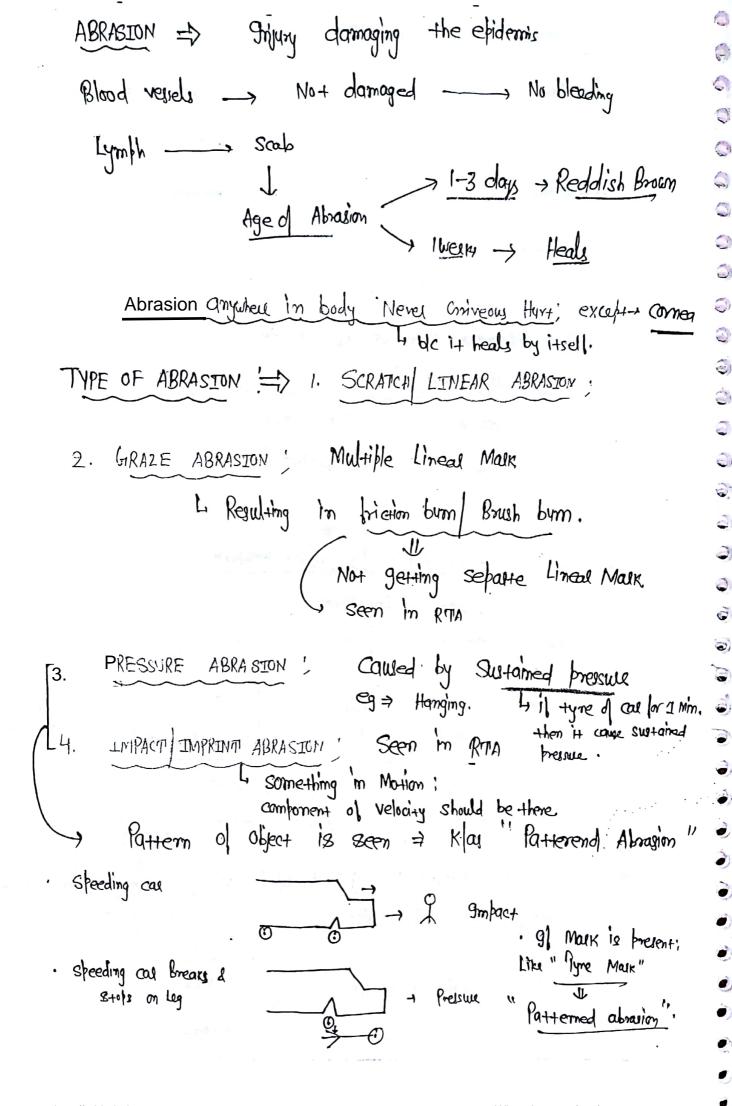
· LACERATION

(b) Share d wearn;

epidermie along & all underlined Hissues damaged.

Width of weapon. **(C)** 

CONTUSTON · epidenmis intac+; but only decler



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Dillerential diagnosis (Anternatem Abrasian):

- Ant lite malk

- Exmeta

- Pressul some.

CONTUSION BRUISE . Lathi; stick; which boot etc)

- Extravalation of blood in Surrounding tissue T intact epitheli

- ECTOPIC BRUISE => Seen away from 9mpact.

Racoon's sign

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Battle's sign

# > Amerior countal lossa

# > Middle comial lossa

contusion > Periorbital Region

antuin > Maytoid

- Patterned Bruise > Pattern of the object as Bruise

TRAMLINE Bruise => Piwo Pale Line

SIX PENNY Bruise > Contuin Resembling the lingul tips of the

eg => Throughing.

Tyre Mark => can cause Parterned Bruke

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G: Which place continuing is better !: than sen!

And a Scall.

Age of Bruise dl+ oxyHb Red 9.1-2 hrs => dl+ Deoxy Hb · 3 hr. - 3 days > Blue => . 4th day > Bluish black > dl+ Hemosiderin Crreenish => dl+ Hemoroidin 5-6 days => - 7-12 days => Yellow -=> dla bilirubin 1 - 2 WK > Normal "Eye" (Subconjunctival Hemorphage) doen't Show colour change

"Eye" (Subconjunctival Hemorphage) doern't Show colour change

II

6'cg dl+ Sullicient O2; OxyHb never

convert into seeky His

Blunt weapon

Margins triegular

Tissues Bridge 

Geound

Shark weapon

Margins Regular

Hemorphage

T

Shark weapon

Margins Regular

T

Shark weapon

Margins Regular

T

Shark weapon

Margins Regular

T

Shark weapon

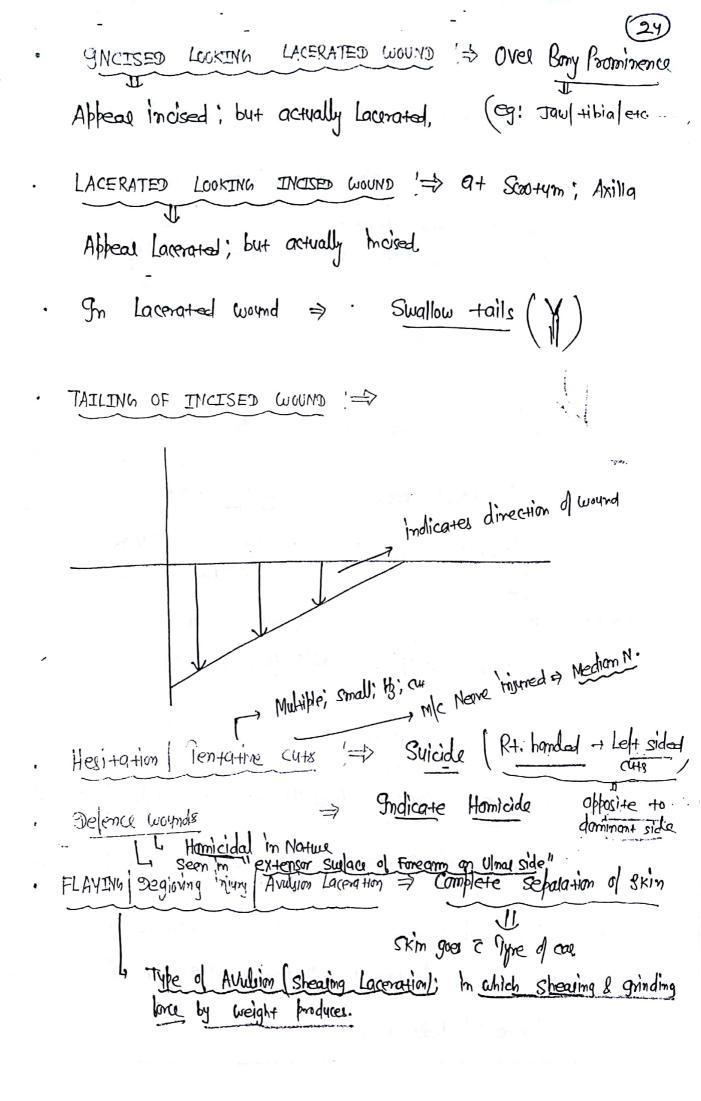
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3

2



O Indicates complete penetration; Hilt contusion (=> helps to know the time since injury indicates the amount of love applies, Direction an't be assessed, Penetrating Abdominal trayma dlt 8+ab wound; the Mc Injured @ Small Bowel; @ Diathagm ; @ colon organ : J0十 204. 15-4 401. · Frontal d Parietal bone = 6 +0 mm SKULL # occipital bone Temporal bone - Thirmest bone gn+ac+ scalp => 400-600 psi = 65 N-m Thomas square inch Cout scalp => 25 ki Types of Skull # => Linear or Fissive # Polar # > M/c type of # (smill) Debressed # Signature # > 2nd M/c tyle of # (skull) ٤. finds # | Indented # > Seen in Infants. 73.

3,

(2)

3)

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GILHER # | Buller Injuries

4.

Ly Looks like "Ping fong ball" => so; Klas "Ping - fong #".

8. # along loramen Magnum Some distance Away from site of impag Occyrs Bursting # g.

Heals Zlout SKW # visible cally.

## Extradural hemorrhage

In Lucid interval; the person can! Always Praymatic (d) Make a valid will; Middle Meningeal Artery can give valid evidena; (b) 18 Legally Restonsible lor ACF of Loss is latal 100 ml done (civil commal). can be present Lucid interval. Period of Normal blow two Insone Duret hemorage seen in EDA Mc site => Paileto-occifital Region Respiratory Failure Mc come of death  $\Rightarrow$ also seen in > @ Insanity; (6) Subacute chronic epideral Kernonthas

.\*:>

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## \* Lucid interval is seen in :=> EDH>SDH

### SUBJURAL HEMORRAGE

- Iraymatic Spontaneous
- M/c cause Damage to Bridging vein Li Running from cerebral correct to Li Running from cerebral correct to Seen in Boxel; called as " Punch drunk hemograps!"

  4 but different from Boxel hemograps!

  4 pontine Hemograps
- Kernchan's Notch > U/L grooving of cerebral beduncte
- Dyne+'s Hemorrhage of Hemorrhage In Mid brain 8 pones.
- Plaques Jay me > old corrical contusion after heal.

Coup injury > 9 njury @ the site of impact.

Counter coup injury > away from the site of Impace

Ly Uncommon in occipital Region

Stationery feed causes only coup injury; but Mobile head can

cause both

3

#### TRAFFIC ACCIDENT



30 days of Accident is attributed to RTA. Death Elm

20 impact injuy Further injuries caused by rehicle Pedestinam Vehicular occupant 1st site of impact injuries other than by vehicle 1 lo moder injury 30 impact injury 20 injury 10 injuy 1, MC SHE > Legs (85/1)

Whiplash invy > Hyperllexion 6/6 Hyperextension Hyperextension 116 Hyperlexion. (Mc) 4 More dangerous Startionary car hits by behind Moving car

No damage to vertebral bodies.

Spinal cord damaged T Anterior Longitudial Ligament damage.

"Spanow leet Afrealong" luindshield glass injuy >

cawing Multiple Laceration on Jack alt impact of Face ē glass & piece of glass,

Sea+ belt Syndrome => MIC Involved organ => Mesenty

> il No+ in option a Michy migned a Splan MICH Myred = Truel

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co-bassenger

Decapitation of Motorgalist alt Tailgaiting impact into heavy vehicle

RTA - 2 bodies lound outside rehicle. from which of the following binding we can't differentiate blu a driver & a co-passenger? Intuhiblash injunier

- Spanow leat appealance => Passanger
- Linear abrain of left shoulder => co-townique
- Steering wheel impact injury => Driver
- Enzyme 1st elevated in Hissue injury = Cathelism Q.
- teal seen in whalk => 9 miner. Q.
- injuries Mainly by > hit by a vehicle of Low chassis. Q.
- Dilluse aronal injuries May show > Reto-action belli-S. Retrograde Ammeria; Immediate loss of anschumen

•) A Pedestrian is hit by a car Resulting in # of tibia. The Autoby he is able to determine the direction of Impact Says that apex of #. The apex of # of Hibia 182 opposite of direction of 9mpact; a.

Along the direction of Impact; bespondicular to the direction of Simpact; C. Related to direction of Smpact. No+

-

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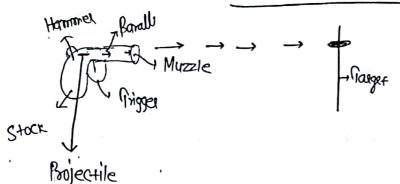
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twhen 1+ is In the Banall

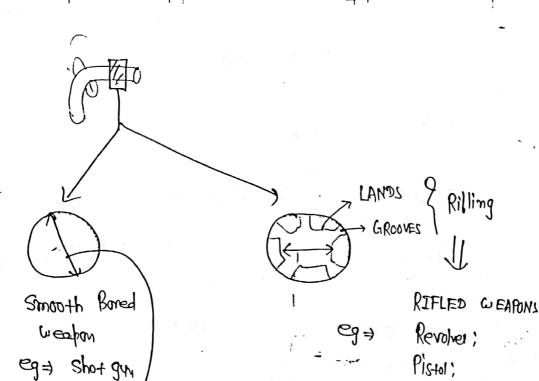
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Internal Ballastics

External Ballastics

Terminal | Wound Ballastic



GRUGE

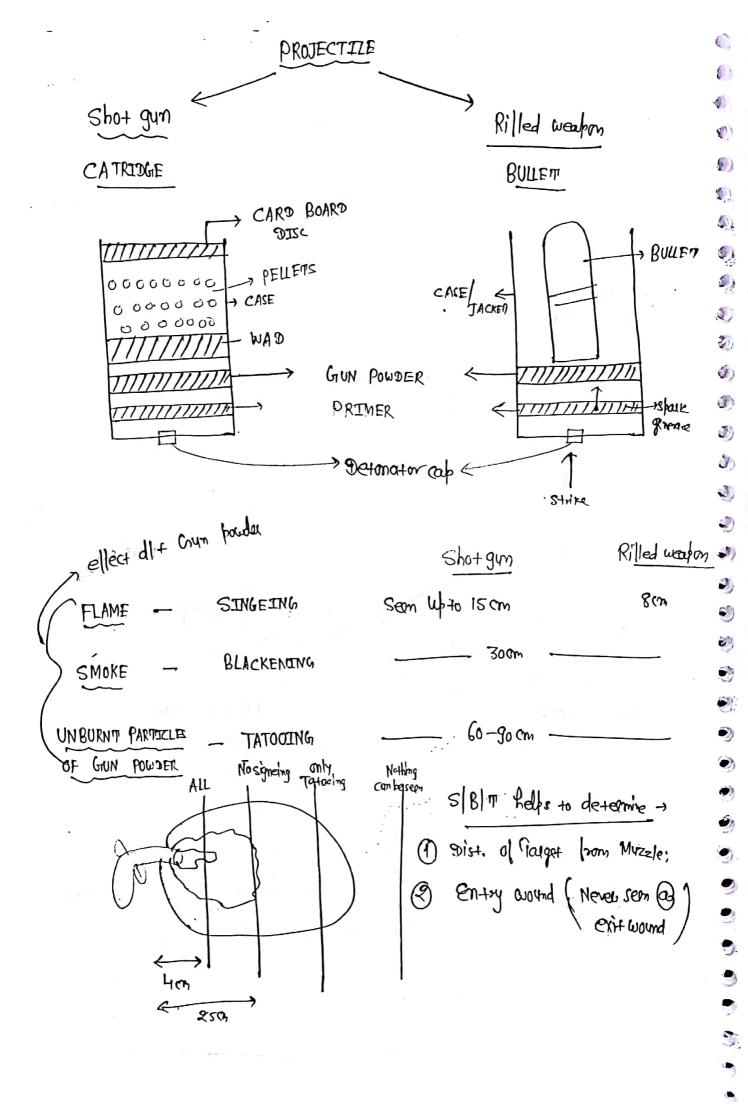
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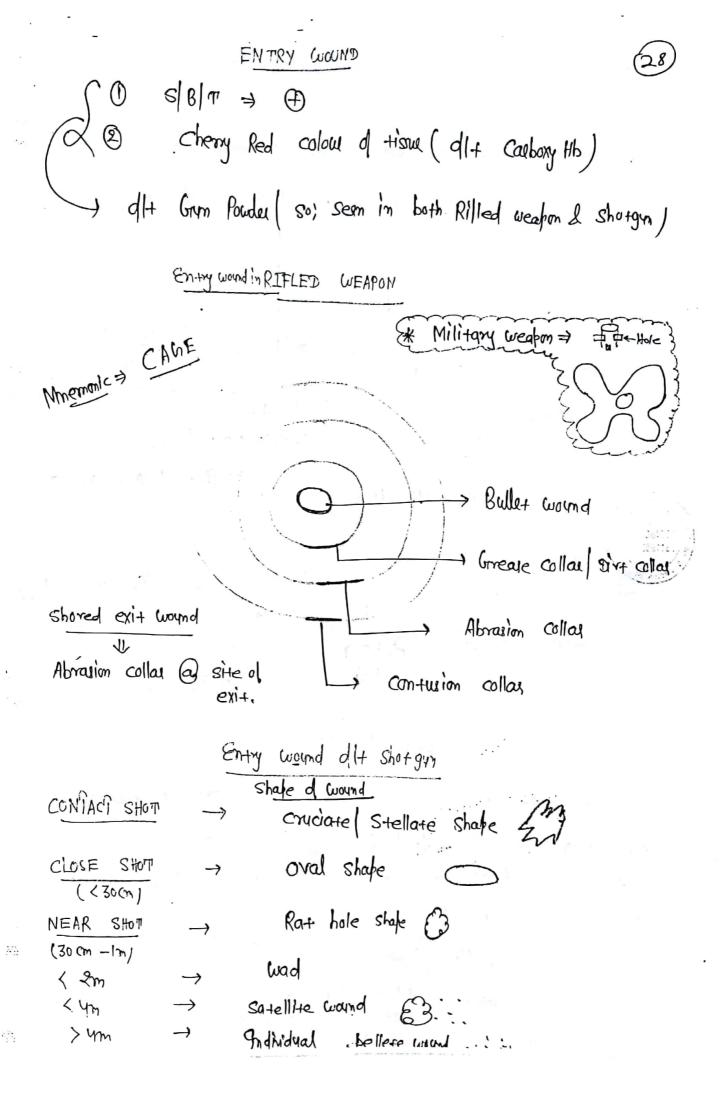
Griternal Measure of
a Shotgyn

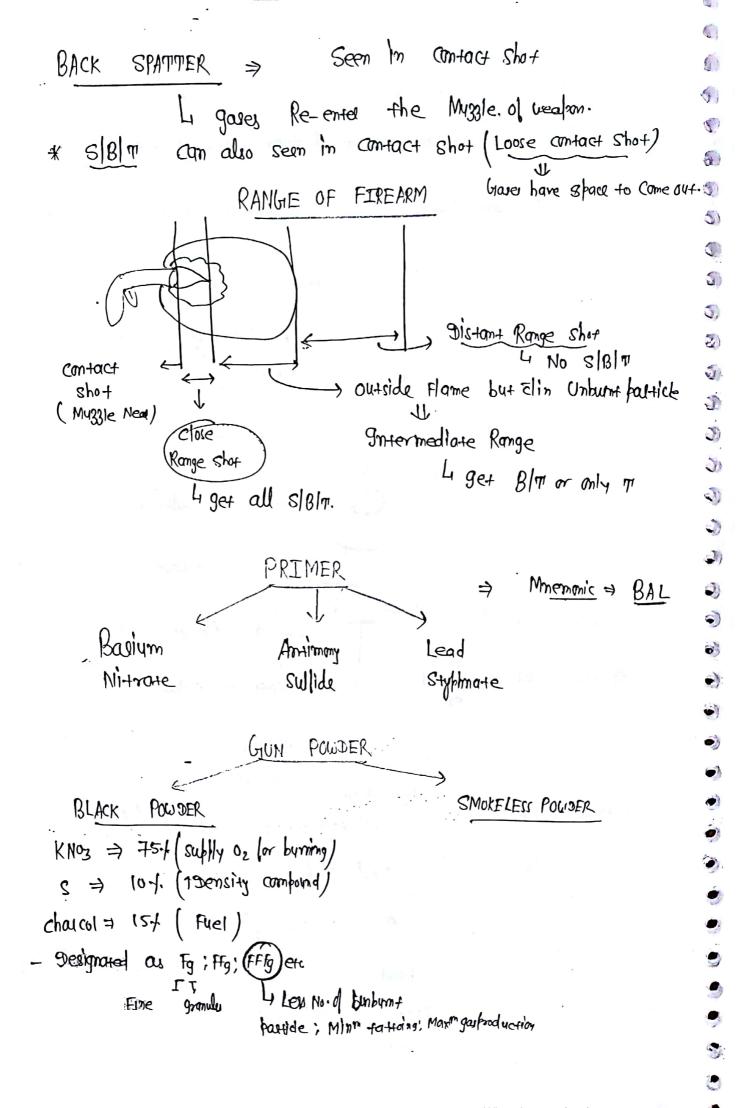
CALIBRE > Distance blu 2 Lands
Li Griternal Measure of a Rilled Weapon.

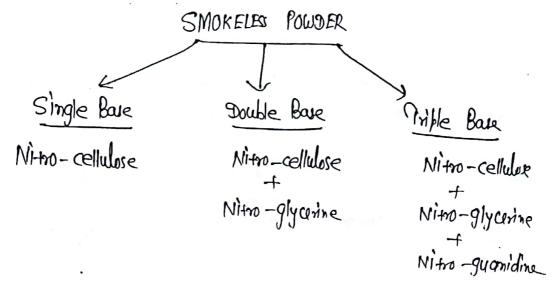
Measured by "Heltxometer"

Rille.









- broduce 12000-13000 cc/gm

- i+ doesn'+ mean No gas/ Smoke; Amount of Blackoning is

Dermal Nitrate test | Parallin wax test

Ly Weld for determining the Nitro group base

- (BAL) Primer detection
- (3) Neutrom Activation Analysis
- (4) Atomic Absorption Spectroscopy (AAS);
- (5) Flameless AAs;

(Box +OH)

Not in obtion; Move Ward from below

Any Metal detertion

## BULLET

> LEAD (Made of)

May Combine Antimony to make it hard.

K.E. = 1/2 mv2 (Tes velocity is preferable)

Cavitation:

Lateral displacement of tissues by projectile

Seen in Rifle

passes into the tissue

HVP => High Velocity

Projectile

U

blc the more the velocity

More chance of cavitation.

#### TYPES OF BULLETS

DUM-DUM BULLER => expands on striking

| Cut @ Nose |
| Banned blc of Maxim damage

| Cut Nuse |
| cut Nuse |
| cut Nuse |
| cut Nuse |
| constriking |
| producing Lorger diameter wounds of limited Penetration

| Souventer Buller |
| Causes | Complication |
| Klas "Retained buller"

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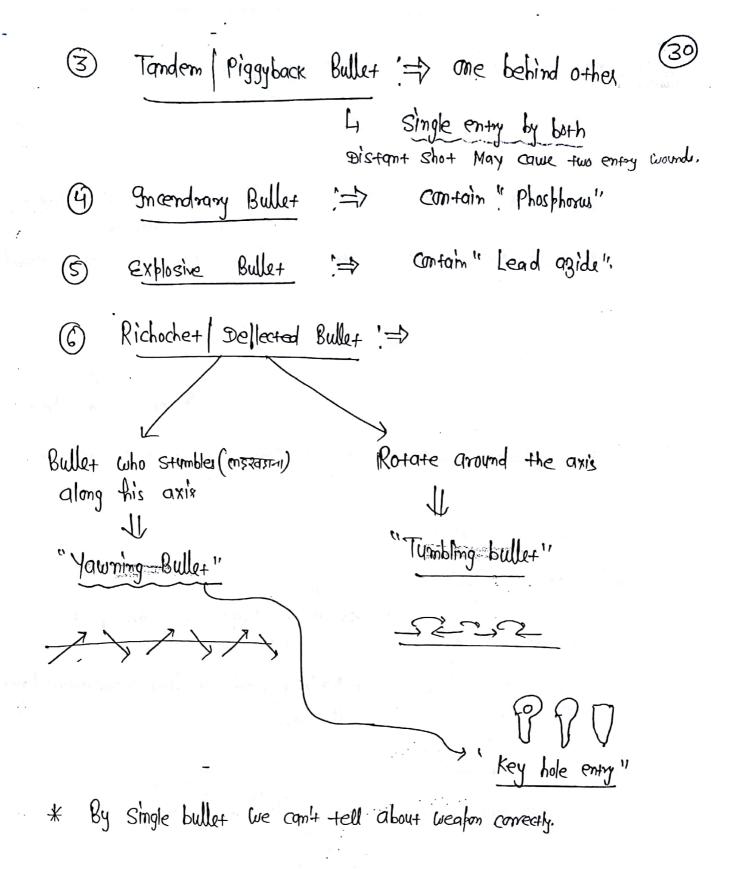
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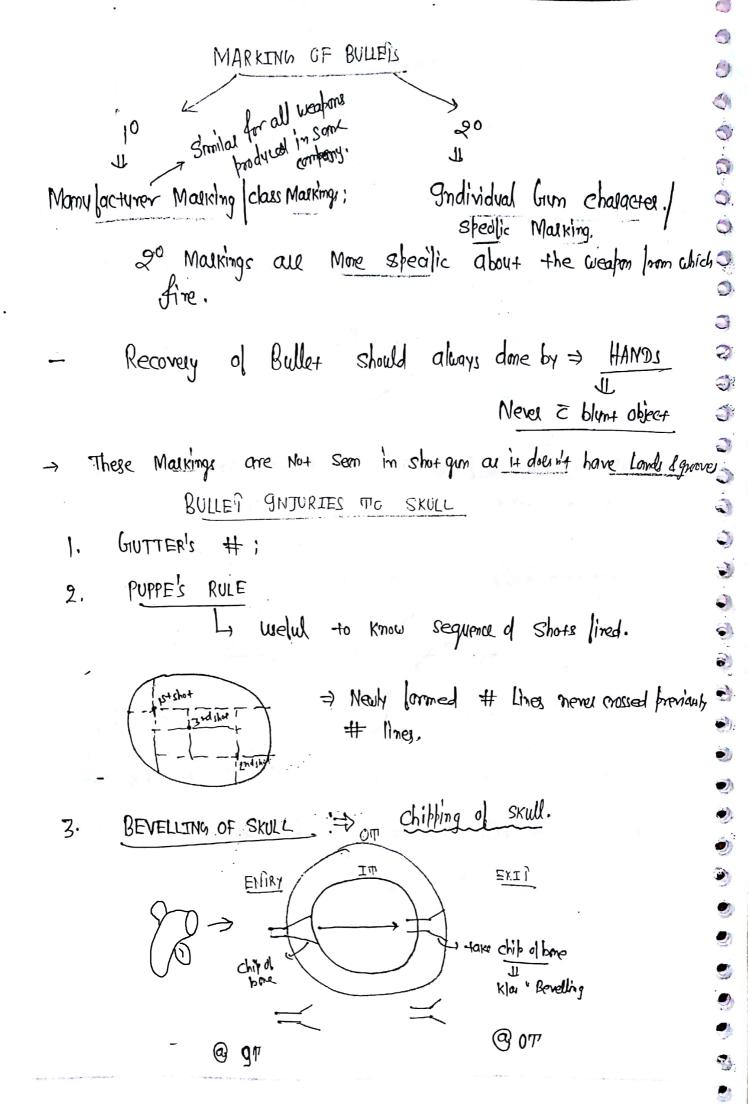
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4. KENNEDY'S PHENOMENON : Sugical Artilacts that brevents

distinguishing blu Entry & Exit wound,

direction of line is assessed after knowing about Entry &

exit wound

S. CHOKING OF SHOTGUN :=> CONSTRICTION of Muzzle End

\* Choking Reduce the Dispession. 9n

Arc of Unchoked Shotgun there is full

dispession dispession of pellets.

Full chara > Constriction of

Full choke => constriction of

Hall choke > constriction of 0.5mm

Cylinder Bone => 0 mm

Spread = Range  $X = \frac{3}{2}$  (for Hall choke weakon)

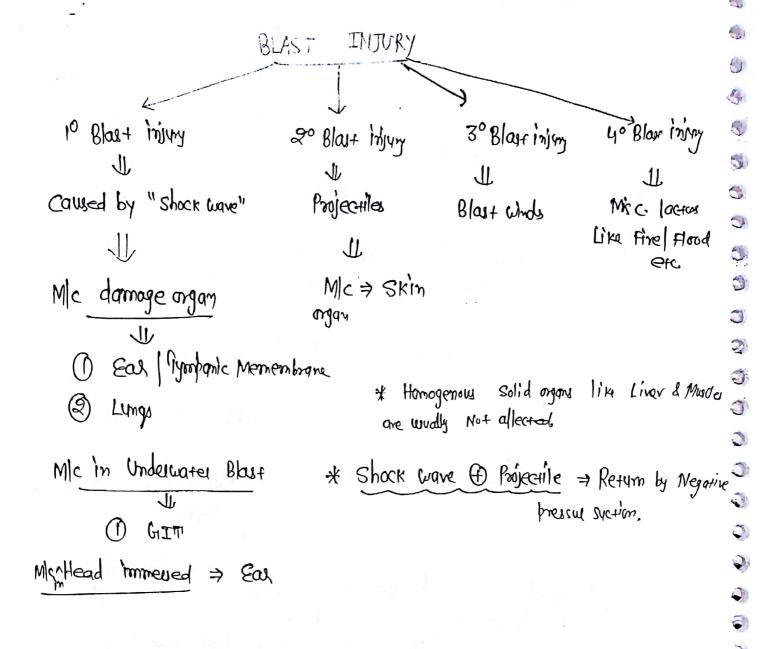
Range  $X = \frac{3}{3}$  (for Hall choke weakon)

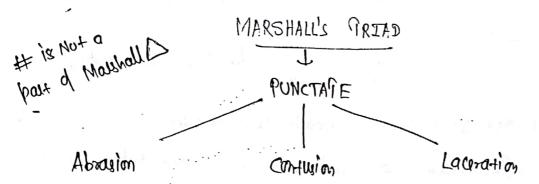
disposion alter

6. PARAJOX GIUN: Smooth Bone weafon = rilling @ the end.
Li combination gum that can fire both bellets like a shotgun
& baladox bullets Like a Rille.

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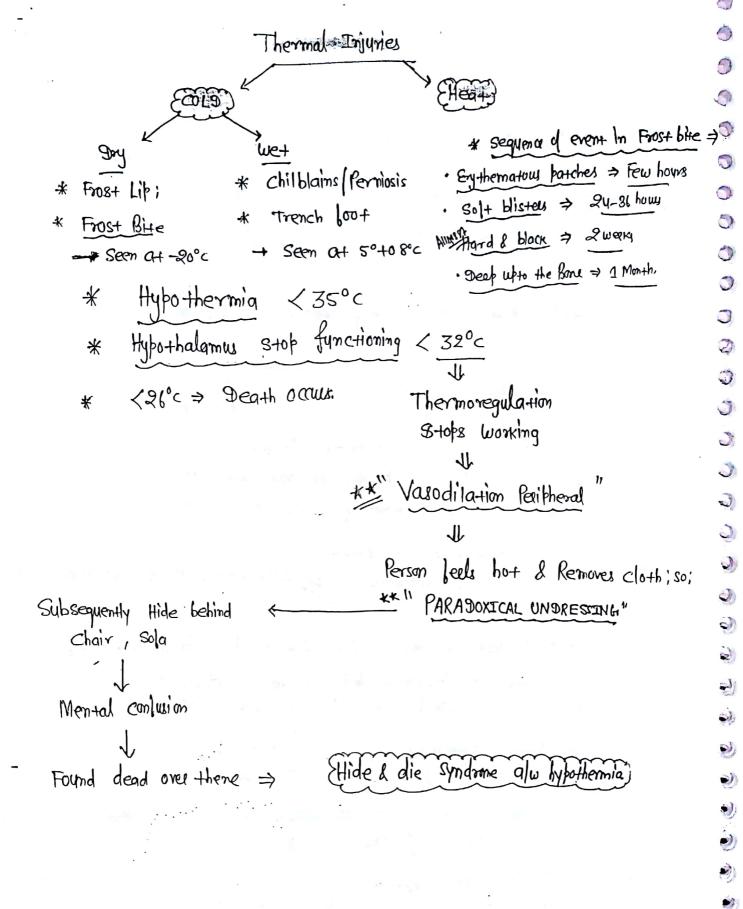
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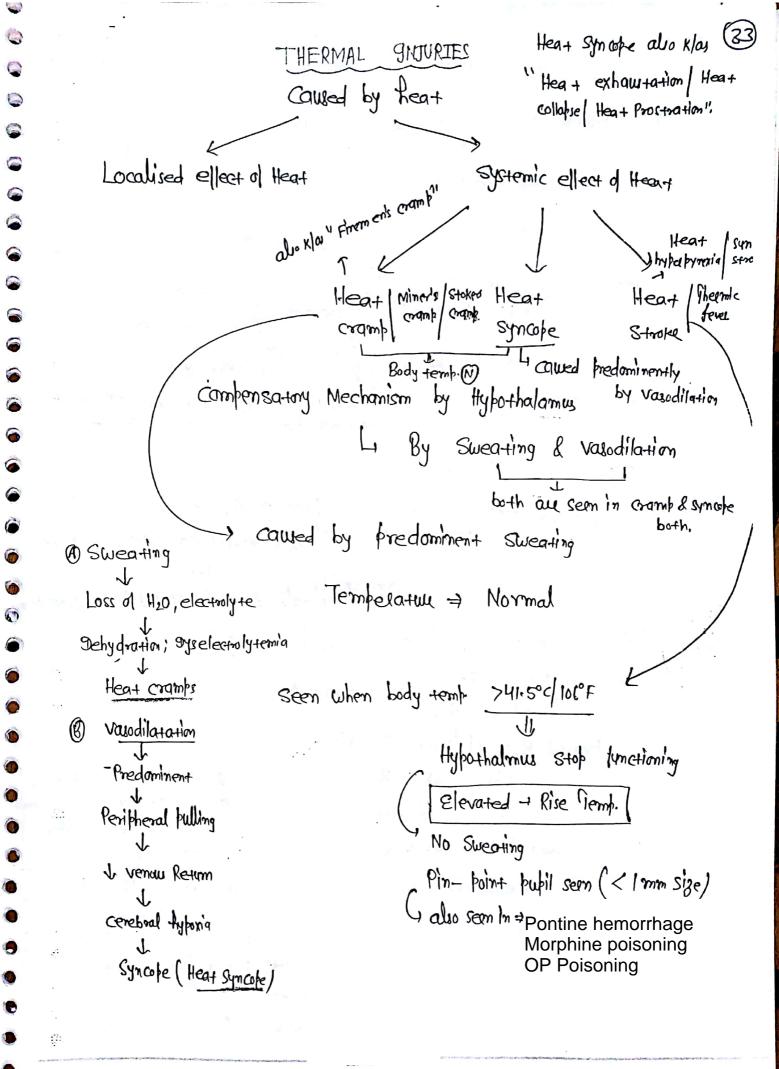




#### MOLOTOV'S COCKTAIL

- Home Made Bomb
- In andiay Bomb
- Petrol Bomb We; Not knowing





## Localised effect of Hear

17

calculation of Burnt area

A Lynd & Browder chart

Used in Age < 15yr.

Best Method to calculating Burns

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Granitatia = 1+ Total body surface Area

Face = 74. Neck = 2-1. Head = 10-1.

Front & Back of Primk= 13% Each

Each upper Limb - 10.1.
Buttock - 2.5 teach
Lower Limb - 24+ each

Area ol Body	In children (Lynd & Browder cheer)			9n Adulis (Wallace's Im
	14	5-942	10-144-	Adult
Head & Neck	19	15	13	9
Trunk (Fron+)	16	16	16	18
Trunk (BOCK)	16	16	16.	18
Upter Limbs	19.	19	19	18
Lower Limbs	30	34	35	36
Crenital	0	0	1 1	,

- (B) wallace's Rule of Nine :=> Used in Age > 15 yr henitalia = 14 TBSA
- © Palmer's Rule :=> Patchy burns
  Palm = 1+ TBSA.

## ANTEMORTEM BURNS

- · Presence of Soot in trachea
- · Measure Level of CoHb > 5% in Non-Smokes
  710% in Smokes
  - 1es cyanide (Nylon byrn -> ganide)
  - · crow leet appearance
    - Signs of Realing (Yellow coloured contusion)
      Vital Reaction Sign of Realing

POSTI MORTIEM BURNS

Hematoma

Homey Comb appealance

Light Chocolate colous

Resembles EDH

Hea+ Rupture

Resembles Lacration
(irregular Margin)
No Bleading seen
Blood vessels intact

Heat Fracture

Crosses over Suttre line

came of death :

MIC immediately CD > Neurogenic Shock
CO Poisoning

< 48 hr ⇒ Shock (Hypovdonic Shock)
</p>

a. Minm 1. cl cotto Reg. to give cherry Red color1 - 201.

- 2. SCALDS: Caused by Moist heat temp. > 60°C
- 3 CHEMICAL BURNS :- brt. in -1 Trickling
  Stillshing

  Nevel seen -> Singeing of Hair
  Bliston

もののののの

4. ELECTROCUTION = "Jowle burn" Seen

L. Endogenous burn

Normal burn is exogenous burn

Central defressed Area

Elevated beathhard Margin.

HPE => Streaming of Nucleii.

Most Resistant part to electric current ',

The sixtant part to electric current ',

Smy Skin >>> Borne >> Moist skin

Ventricular bibrillation (MIC) => il path is through bollow Route of Medullary paralysis = il path is through Brain electric current.

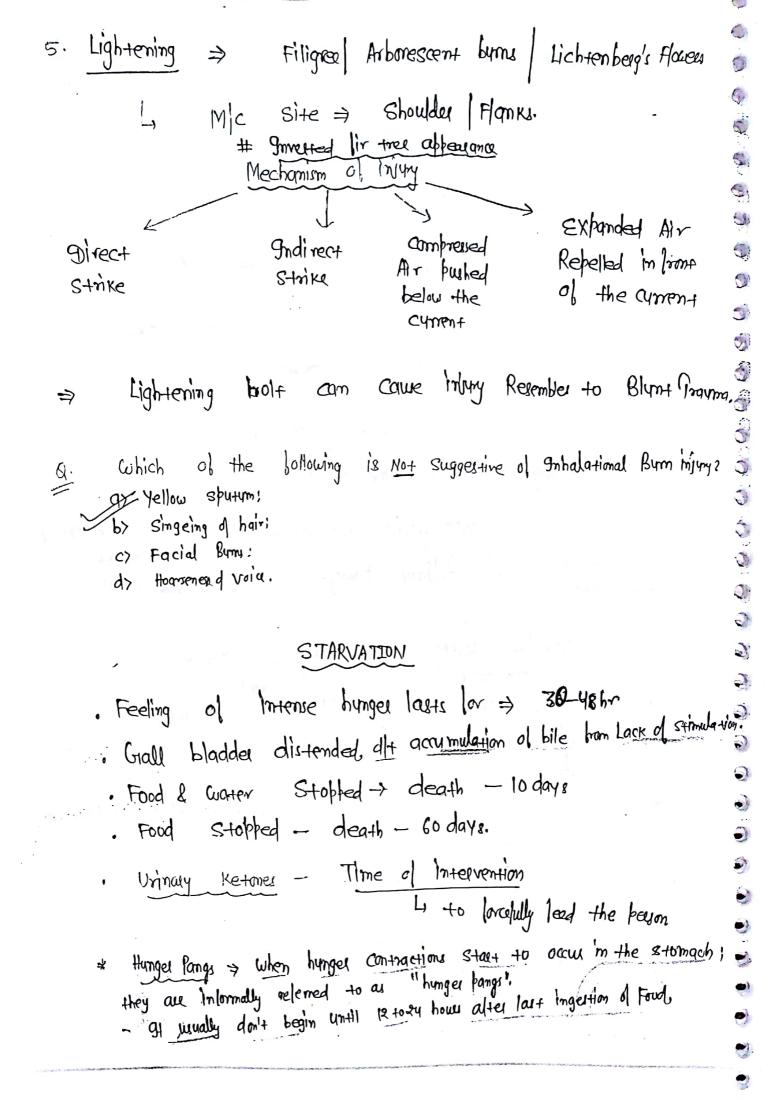
S. FLASH SPARK BURN => Arching of current

When the cooldile skin appearance

Cooldile skin appearance

\* Most Dangerous path of electric current > From Left hand to Right loot.

\* Juidicial electrocution caused out > 9n U.S. (United stare)



Life: Gums: Tongue; imer side of Nose May show buishing or Lacration.

SMOTHERING: SX+ernal Campression of Nose & Mouth

GAGGING: Obstruction of oro-Nasopharynx by Any imprevious object. I.e lilling biece of cloth in Mouth

CHOKING: Sherral obstruction of the whee Respiratory trace

POSTURAL ASPAYXIA: Why of Self campresses the cheet

Li seen in "Jack-KNIFE" Postion

TRAUMATIC ASPHYXIA ! Wt. of other compress the chest

Characteristic linding ! Mosque ecchymotissis (DNB+15)

BURKING ! Homicidal Smothering & Traymatic asphyxia

\* Smothering Resembles endotrached Intubation Mily.

Li il Not in Option; Throttling tick

HANGING :=> Constricting Force > W+ of body

Knot - Occiput (@ Nage of Neck)

Atypical

Knot+ Anywheel else

Judicial hanging = Left Angle of Mondible

C2-G3 # Hangman's #

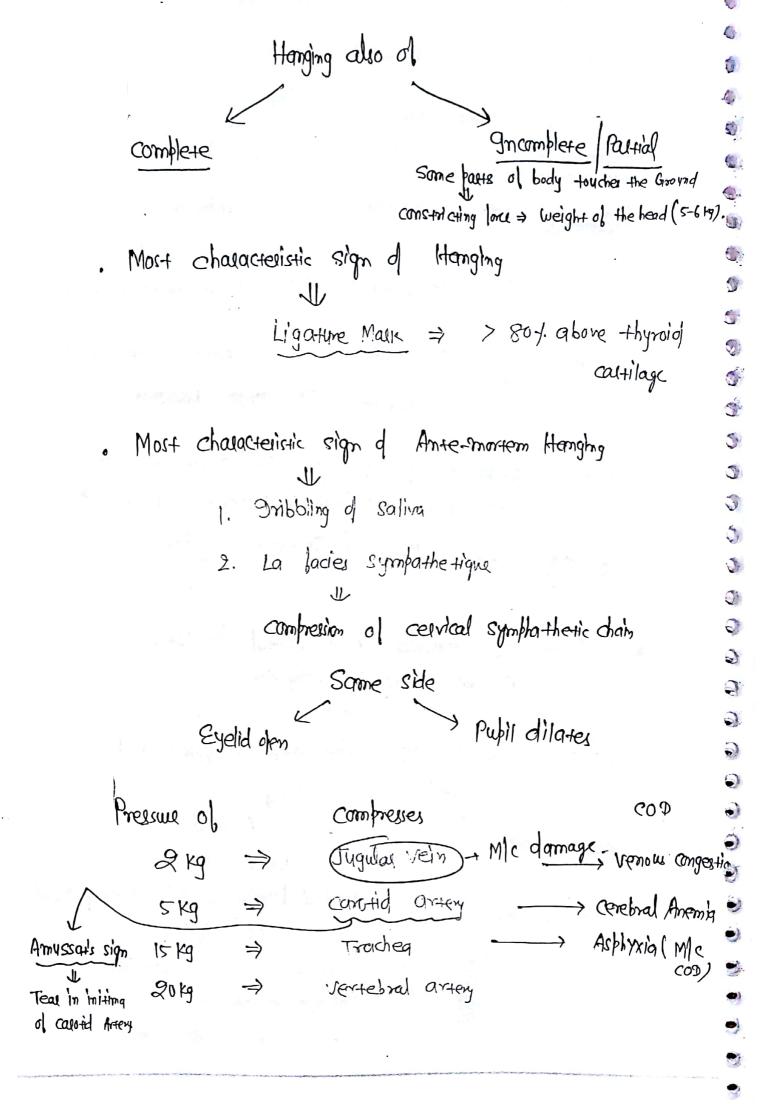
Jallewon's # => C1 #
Undutaker's # => C6-C7#

: 2:

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CONSTRICTING FORCE > Other than word Body.

Ligature > Ligature Strangulation

Manually > Manual Strangulation | Throttling

Bamboo sticks > Bansdola

Elbow > Mugging

Juidical Strangulation > Gramotting

Throttling

Spanish windlass technique"

# Hyold # Thyrold #cricoid

Hanging > 15-20+

S-frangulation > 30-40-1.

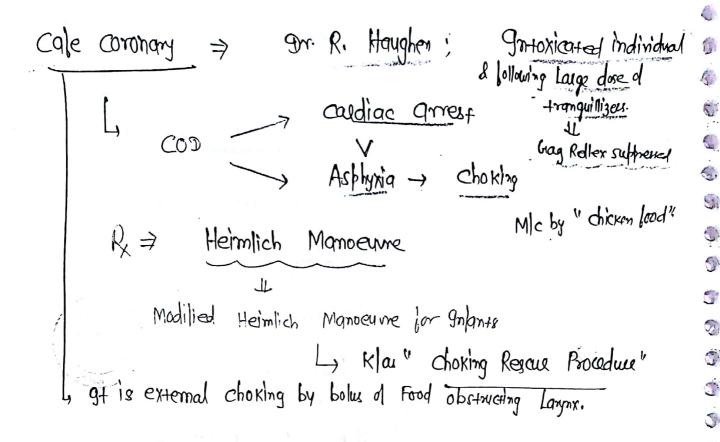
Throttling > 40-50-1.

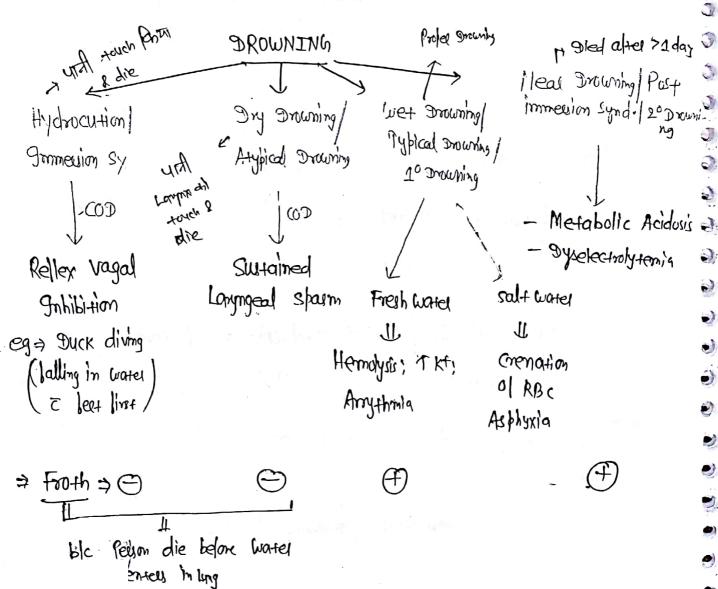
Throttling > 40-50

Lynching -> Homicidal hanging by MoB.

4 Practice In Spain.

6





Pathology of Drowning

Hypotomic -> cells loose 400 -> Hemolysis d1+ Fresh water Drowning > Swelling & Burrting

Hypertonic -> planna conc 17 -> R.B.G Looses Wasel Salt water Drowning > Crenation of R.B.C

> < Can't take 02 Asphyxia

Fresh water: Dies In 3-4 min Dangerow? Salt water ! Dies In 8-12 min.

PM appearance of Drowning 4

Cutis Anserina/ washerwomans Grass & weeds in hands hands & leet Grosse Hesh  $\downarrow$ 1 >24 hr (Body inwater) Cadaveric AMIPM Cdlf Riger Monij Sparm 1 Seen in both 11 AMIPM

Alive & conscious (in AM Drowning) PM appearance of lung => Emplysema acquosyn (Water logged; heavy voluminous Found only in wet drawning; Not in dry drouming Lings become bulky

Paltaully hemontage - Subfleral hemontage

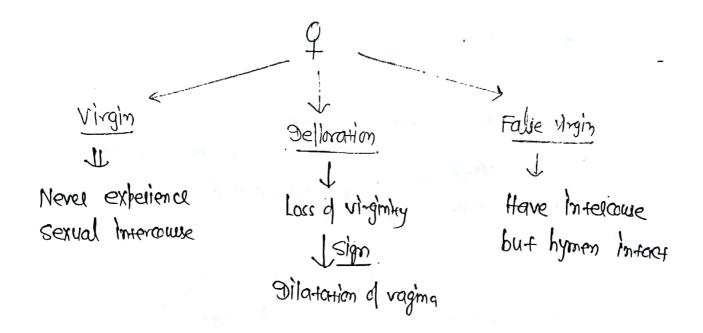
Canthucam

Seen In AM

DIATOMS > Microscopic Algae
Ly Shell Made of Silica ⇒ Frustule
. Diatom of < 60 minorus enter Pulmonary circulation
· (F) of diatoms in systemic directation => Continu AM Drowning
· Maxim Diatoms all seen in > BM of Femul But for preservation wed "Sternum"
Best organ to detect Diatom >> Kidney
Test > Acid Digestion -test
- Most Chalacteristic Signs of AM Browning =>
Girasi & weeds > Emphysema > Palatoul's Hemorthage > Diatoms in Honds   acquosym   In systemic drailator > Frath
dralastos > Frath
* Stroontium Rise > suggestive of AM showning
* Intimal damage to coutoid tracty => Hanging 2 a trop
# Intimal damage to coutoid Aracry => Hanging Z a grobe GETTLER'S TEST! Used to determine Salt/Iresh water death.  if the difference low cr b/w two Atria > 25% => 10
GETTLER'S TEST! Used to determine Salt I meth water death.  If the difference took of the two Atria > 25-1. => (F)  Eg => 1 Unity ( RA LA flothin => 901. => (F) ** Normally the chloride contemp is equal in the Rt. R. L.t. chambers  * If CT 1 in LA => Salt water Inouring;
GETTLER'S TEST! Used to determine Salt I meth water death.  If the difference low CI blow two Atria > 25% = + + + Normally the chloride content is equal in the Rt. R. L.t. chambers  * If CI 1 in LA => Salt water Drowning;  * If CI - V in LA compared to RA => Fresh water Drowning;
GETTLER'S TEST! Used to determine Salt I meth water death.  If the difference low CI blow two Atria > 25% = + + + Normally the chloride content is equal in the Rt. R. L.t. chambers  * If CI 1 in LA => Salt water Drowning;  * If CI - V in LA compared to RA => Fresh water Drowning;
GETTLER'S TEST! Used to determine Salt I megh water death.  If the dillerence Dol CI blu two Atria > 25-1. => (F)  Eq => 1 Unity = RA LA flotinin => 901. = (F) ** Normally the chloride content is equal in the Rt. R. L.t. chambers  * il CI 1 in LA => Salt water Drowning;  * il CI 1 in LA compared to RA => Fresh water Drowning;

•

## Symogate — Close Relative - Should have one child of his own - only once (excluding lailed attempts)



Hymen (Mucosal Fold)
Not Rubtured in

-Riding

-Jumping

-Dancing

9m children - deep seated; so;

is Rubtured in

S

- Sexual Intercurse

- Mastyrbarion

- Sanitaly tampons

- Watherl

- Sola Pith

Ly used to Marko Fit for sexual intercourse Mic site of Rupture of Hymen :

Anterolaterally = 9n Martinbation/Fingering

110'clock 10'clock = 9n Sexual intercourse

Postero-Laterally

Glaister Keene Rod:

Grescenteric hymen.

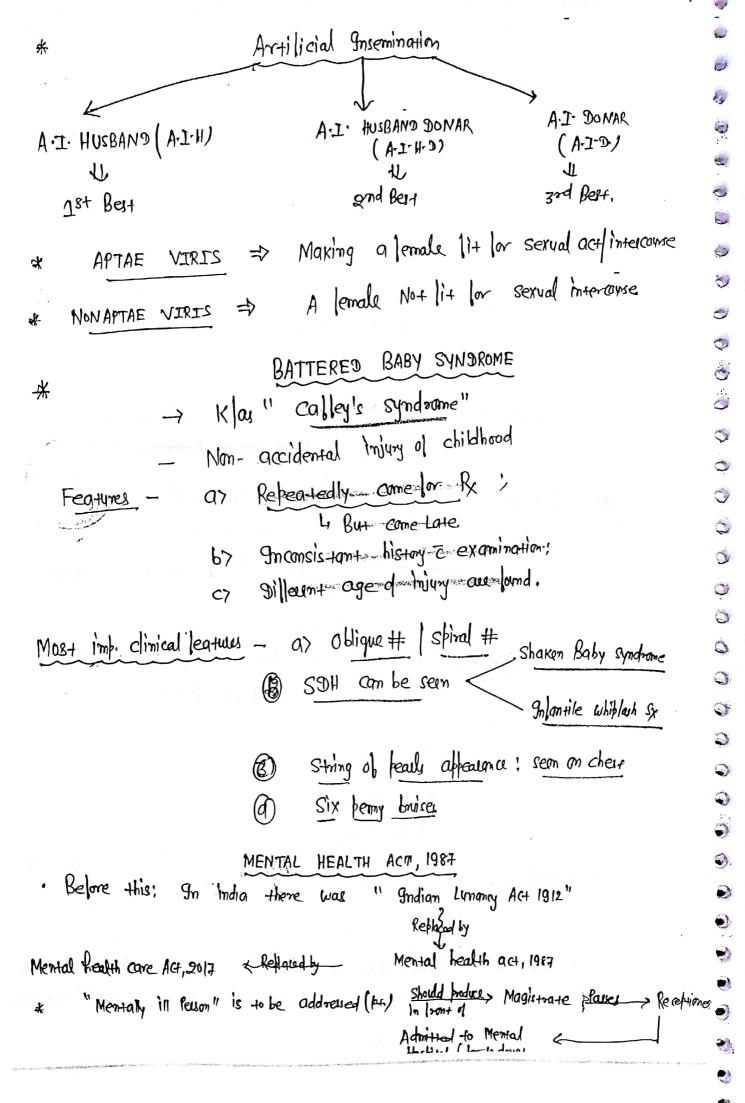
Crescenteric hymen (Mlc).

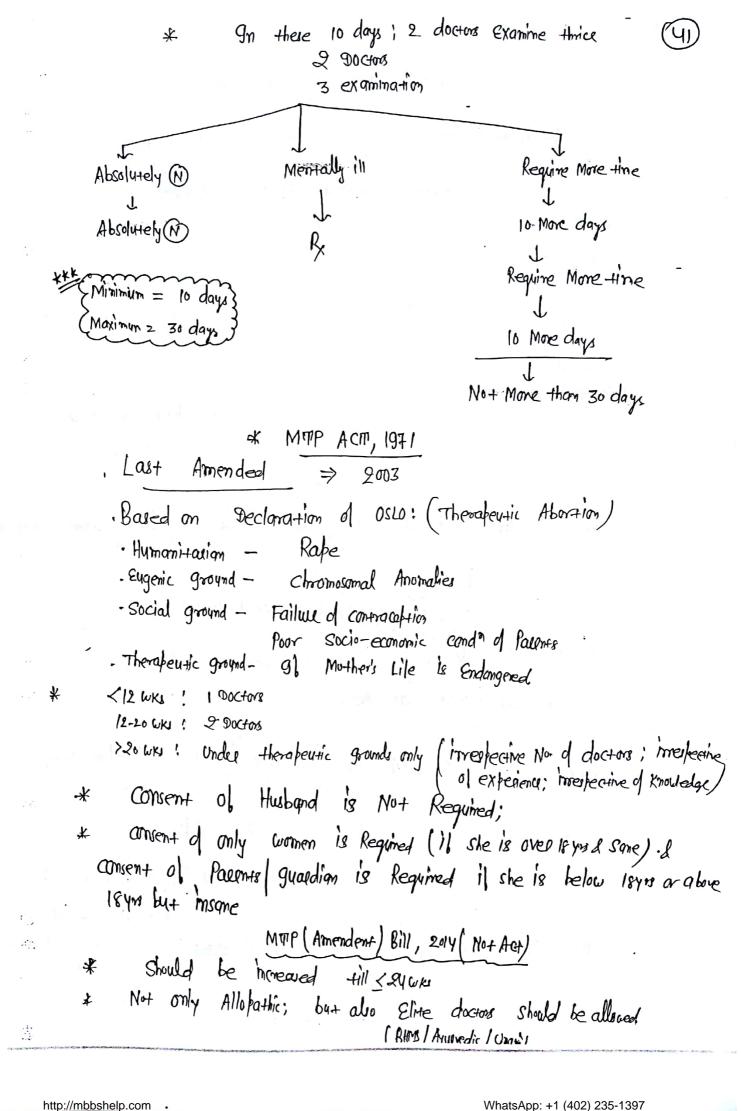
Li klar semilyman hymen.

4 Fimbricated hymen Resembles torn hymens.

commande Myrtilonnes > Remnants of hymen seen after Child birth.

Paras uterus Nulli paray 11-ery Cavity wall convex an care from Inside Sli+ like circular External 20 False virgin True Virgin Hymen Infact but elastic Hymen intact & inelastic Yn+actness Admits two lingus early Barely admir tip of little lingar Hymen opening Undulated. Distinct Edges 7





THA	NATO	LOGY
-----	------	------

Name and the second sec	
- Study of death in all aspects	(6)
- Bicha+  Bishop => Tripod of Life Modes of death   Atria	V
- Brain Stop unctioning > ama	9
	5
- Heart> Symole	9
- Lyng Asphyxia on	5
	5
	9
	3
Not Mention in Death	5)
celtilicate	9
	3
Somatic clinical death > Some cells are died; somes are alin	e
(1-2 hrs) -> Supravital beriod	3
(1-2 hrs) -> Supravital beriod	1
	E
cellular   molecular death	9
After death (0.5-11M -> Propically instill 1.1. Atoopine In eye	1
Africe action (03 2m)	•
ડેડક કિન્દુા	9
	9
L) Gregular dilatation of Pupil	
ble only live all are	
Tsako's Phenomenon, About 1 hr of death Responding; dead cells	1
- Knee Jean (elici+)	
contraction of Quadrials.	
	4.00

Post Mortem Changes

9mmediate (Somatic death) Early (cellular death) Late

1. Insensibility & loss
of voluntary bower
(earliest sign of death)

2. cessation of Respiration

3. cessation of circulation

- 1. Pallor & Loss of Pallor & Loss of Skin
- 2 Eye Change,
- 3. Algor Mortis
- 4. Liver Morais
- 5. Rigor Moras

- 1. Putrefaction -Syrest sign of death
- 2- Adipo ene formation
- 3. Mummllication

Eye change,

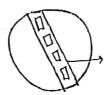
- · Ver in IOTI => Earliert

  1/2 @ death

  3ero in 2 hrs.
- · Rise of Potassium in vitacous humons (MIDEA'S FORMULA STURNER'S Equation)
  - Comea > Hazy in 2 hrs.
  - · Kevorkian sign Cattle trucking > Trucking of blood in blood vessely

    Ly Seen in Minutes; by Ofthalmoscole.





Trucking of blood of the cellation of circulation

Sign sean Maxim who & hra. (till comes become hozy).

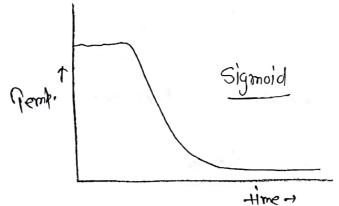
Tache Noir > Accumulation of Debris on Sclera

> Eyelids - Open alter death

> About 3 hrs.

Resembles to Pterygium.

ALGOR MORTIS -> Cooling of body Alter death



- temp. doesn't tall till 30-60 min. after death.

- Recording body temp. > @ Rectum)
Libut in sodomy

by "Thana-tometer"

injerior sulace of Liver

-

5

1

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E

1

1

1

1

9

J Lengtin ⇒ 25cm

6 Tympanic Membrane

@ Intronaval = cribillom plate

Rate of Cooling => 0.5-1.5°c/hr OR 1.5°/hr

Summel Winter

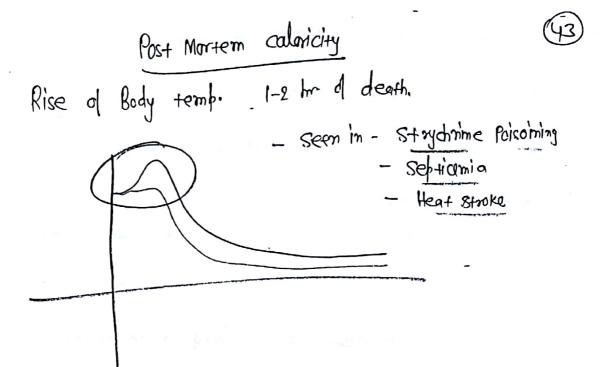
Q\* on 25th June 7an; R/T = 31°C. Time since death?

1. 23/6,7PM

1. 23/6,7PM 2 24/6,7AM

3. 24/ E, 7PM

5. 25:1, 7?14



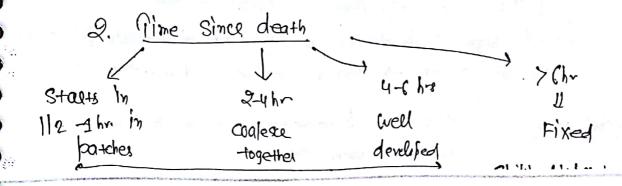
Hypostasis Livor Mortis PM staining Cadaveric Lividity Suggilations vibiar Darkening a

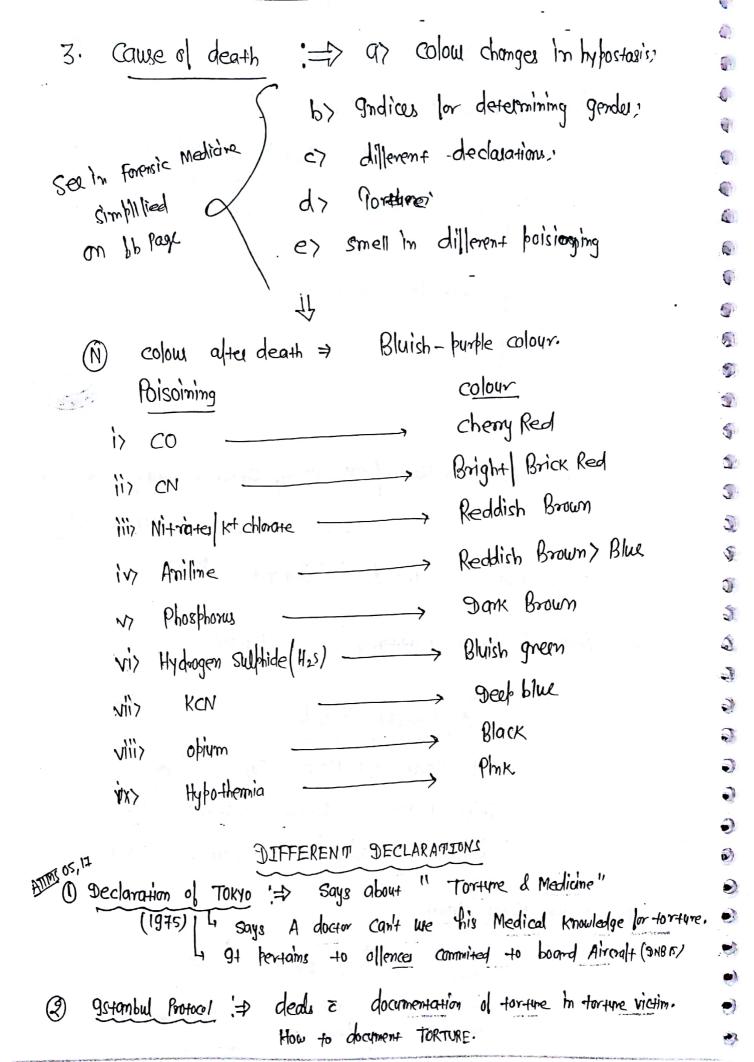
- Gravitation of blood in dependent parts
- Area of Sulace Flattening Contact llattening
- Uses 1. Posture of body

  18th Sean Over Neck Supline position

  Glove & Stocking position of thypograsis ⇒ Hanging

  il body is Continuous llowing in water ⇒ No thypostasis





Declaration of Istanbul :=> Deals & organ trallecking. (44) 1=> Deals & Therefreutic Abordion; Declaration of OSLO (4) Modernization of Hiphocratic Oath; Declaration of Geneva (5) Deals & Hyman Experimentation & '⇒ Declaration of Helsinki clinical trials; Deals & Patient Rights; Declaration of Lisbon (7) Declaration of sydney !=> Deals & Brain death, 8 Deals & Role of doctor in Hunger Strike Deallgration of Malta :=> (9) · Can't interfere to one hunger 8trike leading is Not allowed, · Forceful but it any govt. offices (eg = Namender Modi) told to break the Strike Ly then by Article 21 we can loca beoble on hunger strike to eat, !>> Support for doctors religing to participate Declaration of Hamburg in or other form of cruel; inhuman orderading treatment.  $(\hat{\mathbb{I}})$ Declaration of Munich :=> Racial; Political discrimination in Medicine. Declaration of venice !=> Terminal illness Deal & Brolessianal Autonomy & clinical Indefendence Declaration of seoul

http://mbbshelp.com

(P)

4.7.

Declaration of Madrid :=>

0

Deal ? Prolessimal Autonomy & sell Regulation.

	PNDICES	FOR DE	TERMINING GEN	DER
. In dices			9	07
1. Ischiopubic index (would by	m's 9nder)	^	<del>-</del> 91+0115	73-94
Pubic Length X 100)  gschial Length		/	J# 10##25	0 /
9schial Length /				
2. Pubic Ramw Ratio	ر داد موالی	<u> </u>	2:1 or greter	1:1
3. Sternal Index	1 4	,_\	54.3	46.2
Length of Manubrium X10	o)	<i>.</i> —√		
Length of Body	2000 W. W.	_ ~ ~	est are tener settle	
4. Corporo-basal Index		<b>`</b> ≟>	40.5	45
Bredth of 18+ Sacral vertebr	19 X 100)	•		
breath of base of Sacrym			سند براسد	ر المواسف المنواسواسو
5. Sciatic - Notch Index			5+06	4405
	,, `,	, ,		
Subth of Sciatic Notch X10		سه دري رس	و المساور المس	
6. Sacral Index				112
Transverse Diameter or Bredt	<sup>1</sup> γ ;=	<b>⇒</b>	16	
ol base of Sacrum	XIm			
Length of Sacrum	_ ANDICET	TO DETER		NEGROES
7. Cryral Index	45 × 1		OPEANS	86.5
	 	₹) 83	·3	00 2
Length of Tibia X lo				
				16 J
8. Bradial index	:=	74.	5	78.5
Length of Radius X100)				
c Length of Hamerus (1)	y) ii			

S

(L)

g,	Intermembral Index	<b>'</b> ⇒>
	Length of Hymeny + Radius x100)	,
	Length d Femul + Tibia	

NEOROES (45)

\* MIC Form of tortune: Beating on EARS
FALANGIA - TELEFONO

# Dry Submanne => Tying a plastic bag over the head Until

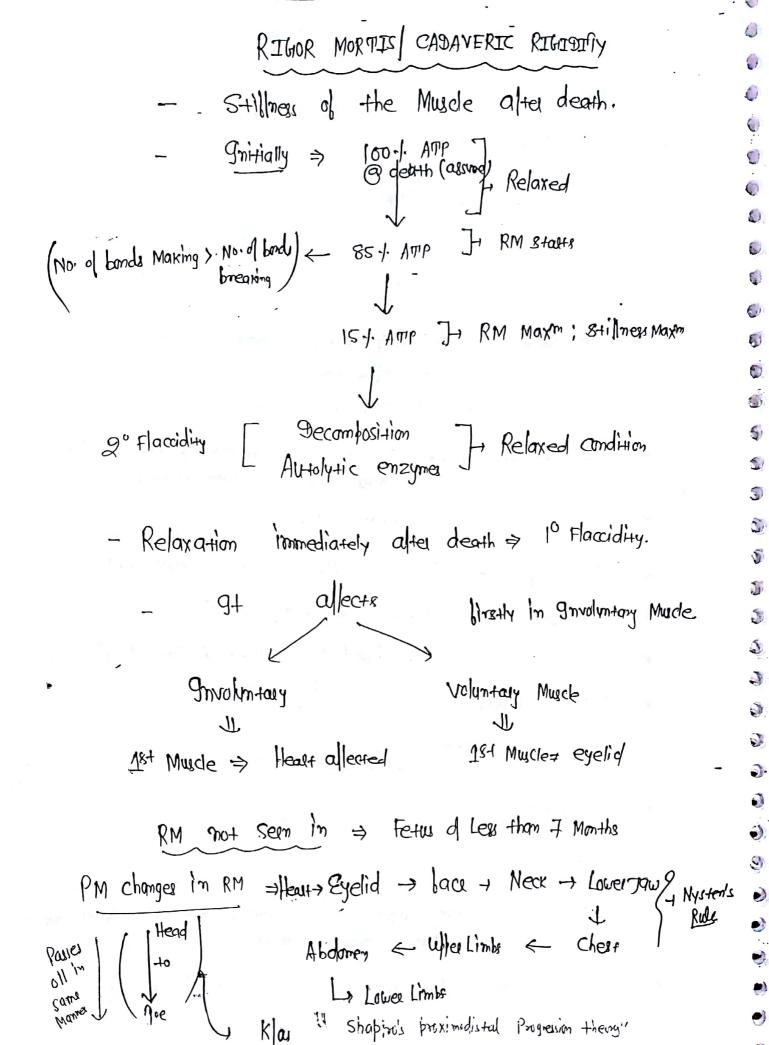
Sullocation.

L. can we tell A.M. or P.M. death ? Yes

EUROPEANS

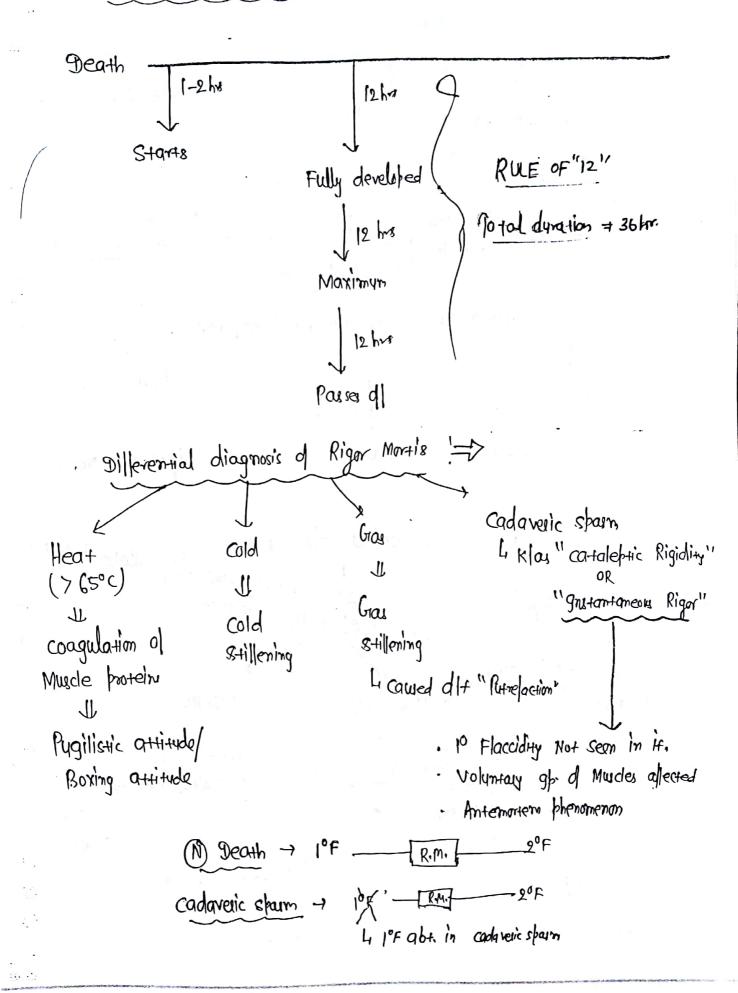
.70

- \* Wet Submanne (Lating) => Forced immersion of head in water contaminated & vine or leves.
- \* Picana => Electric torque.
- \* LA PARILLA => Tie a person to electrometallic grill.
- \* PLANTON => Tortune by brolong Standing;
- \* STRAPPEDO => The hand behind beson & Suspend aread La Bandon
- \* PARROT'S PEARCH :-?
- \* CATTLE PROD! Electric Shock over genitals,
- \* CHAPUWA !
- \* GIHOTNA
- \* DUNKING! Victim immersed into water, taken out after some time and given chance to amless.
- \* SHAM EXECUTION ! अरिव वंद करके शेंड पर आड़ी के समने होड़ देना

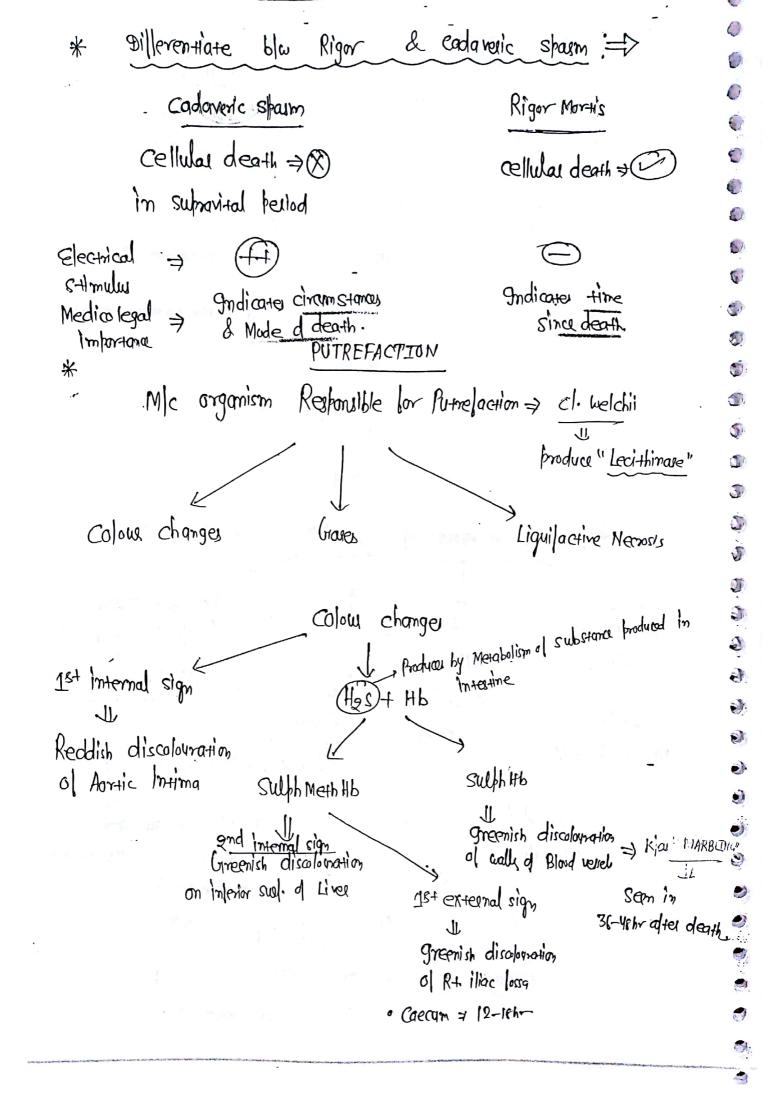


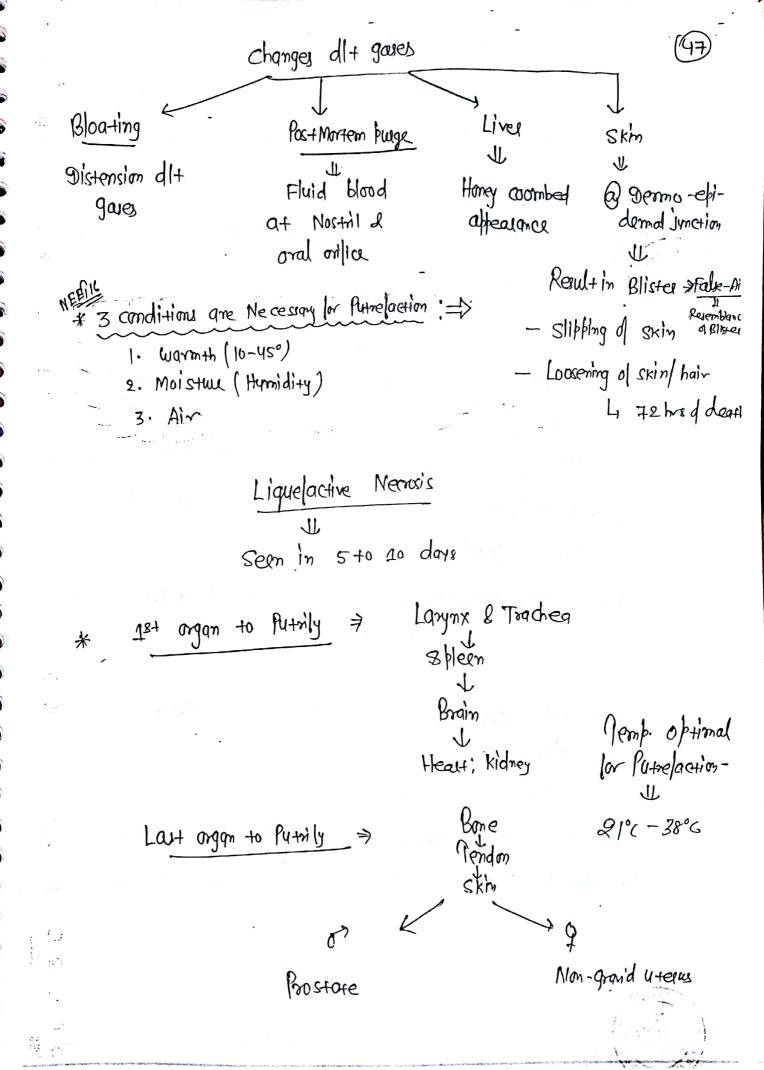
http://mbbshelp.com

WhatsApp: +1 (402) 235-1397



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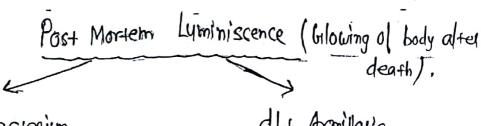


Photo bacterium

d+ Armillala

.

5

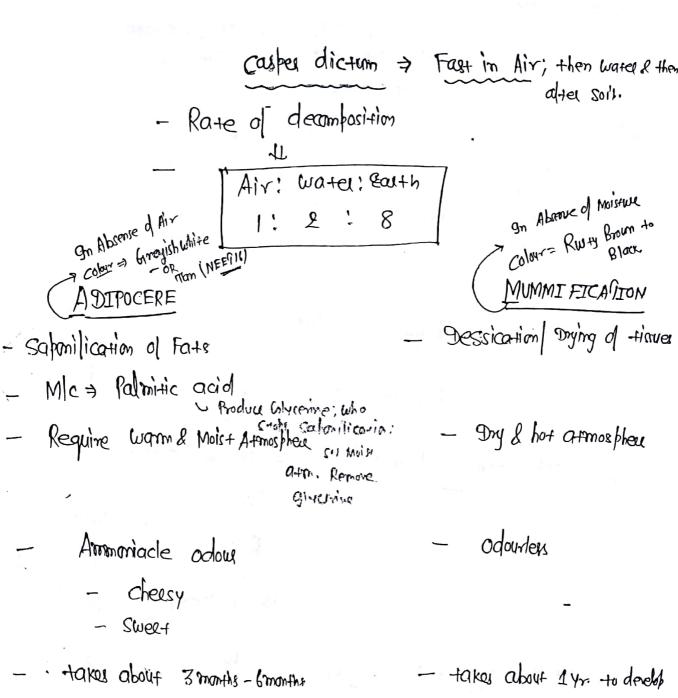
5

0

3

0 9

9



9n India → 3 days

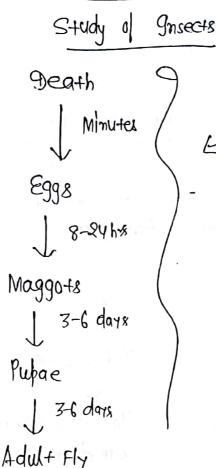
Chronic As & Antimory Poisoning

Favores Munnification

- Uselylin

weld in COD Time since death

adentification (Facial leasures are preserved only in early stand



of 146 hm dentinal tubules.

NEEDLE 13+ organ to be involved in Mummilication > Skin of exposed body

Pauts like Lips; Nose tils; Handa (Finger) &

Feet (tog)

Q. Which of the bollowing 18 Not Suggestive of Inhabational burn injury?

Vellow Sputum; (6) Singening of hair; (6) Facial burns; (9) Hoarseness

of Voice

The causative electrode of electric injury can be identified by in Acro Rinn;

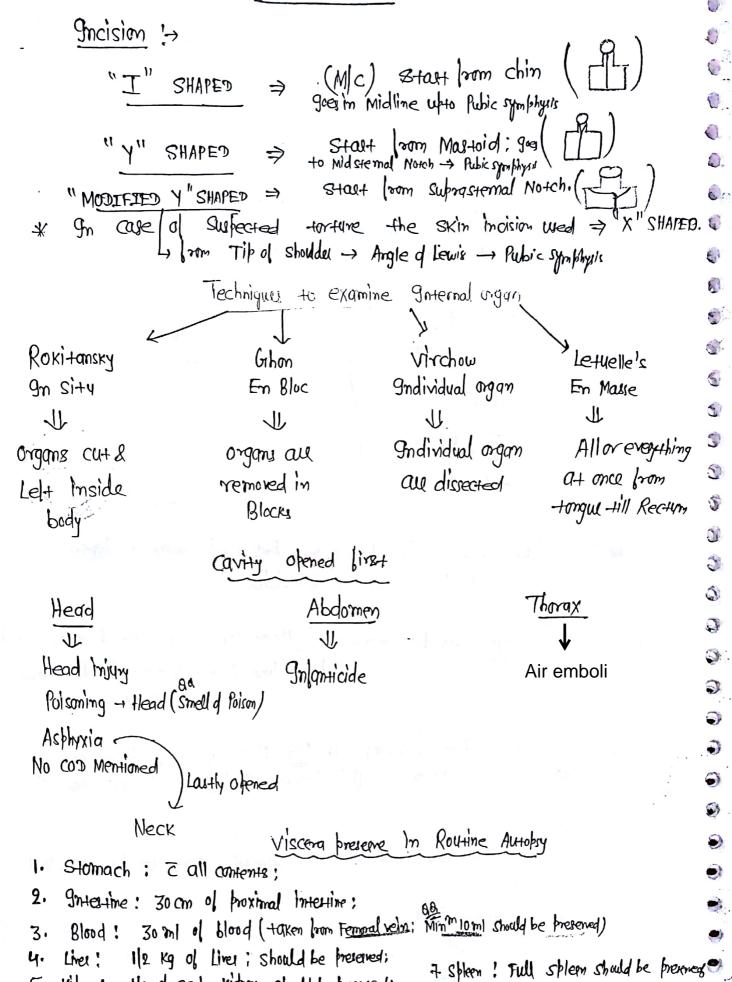
(a) Acro Rinn;

(b) current least;

(c) Bone Pearl;

(9) wax dripping

## ROUTINE AUTOPSY



1/2 of each kidney should be preserved:

M. CN. Corone Pricaire

Mc Preservative Nacl \* VIL Not wed in Comosine Acmite Corrosive sublimate Formalin Toluene > Thymol Usine \* used as presentine Na Meta bisulite Ritten ruit a In HPE. => come scene Unic acid crystal Alcohol  $\Rightarrow$ \* 80 f. glycen Morphy Legipoloria  $\Rightarrow$ \* Nucleased Blood for culture AMC \*  $\Rightarrow$ U Blood - ESTA vials 292 Hair -> Plucked ( Sodium Polyanethole 3 Spleen Sulmare) Musde AUTIOPSY FEMAL "I" shafed MIC ⇒ 9ncision  $\rightarrow$ Preferred => 9 minested "y" shaped technique by operating letal SKUL! 2 Flaps Beneke's technique > technique => 4 Flaff Bagyls

1 6

5

9

3

Age of Fetus

Haase's Rule

WP+0 5 mths

\*

CHL = 25 cm grown Heel Longern

Age (M+h8/= ) Length (cm)

Morrison's Rule

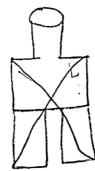
6-10 miles

Age = Longth

Crown Rump Length = 2 Crown heel Length

X-Shaped Incision - done in Torture

- Kept the body in Prone position



Pseudocyesis is usually observed in :

a) dildles whe Nearing Menopolise;

Males who are impotent to a particular woman;

@ Ummarried woman in whom contracelytive has lailed:

Young Married woman & illicit sexual Relation & colleague

Initial damage to carotid A. is alw deaths of +:

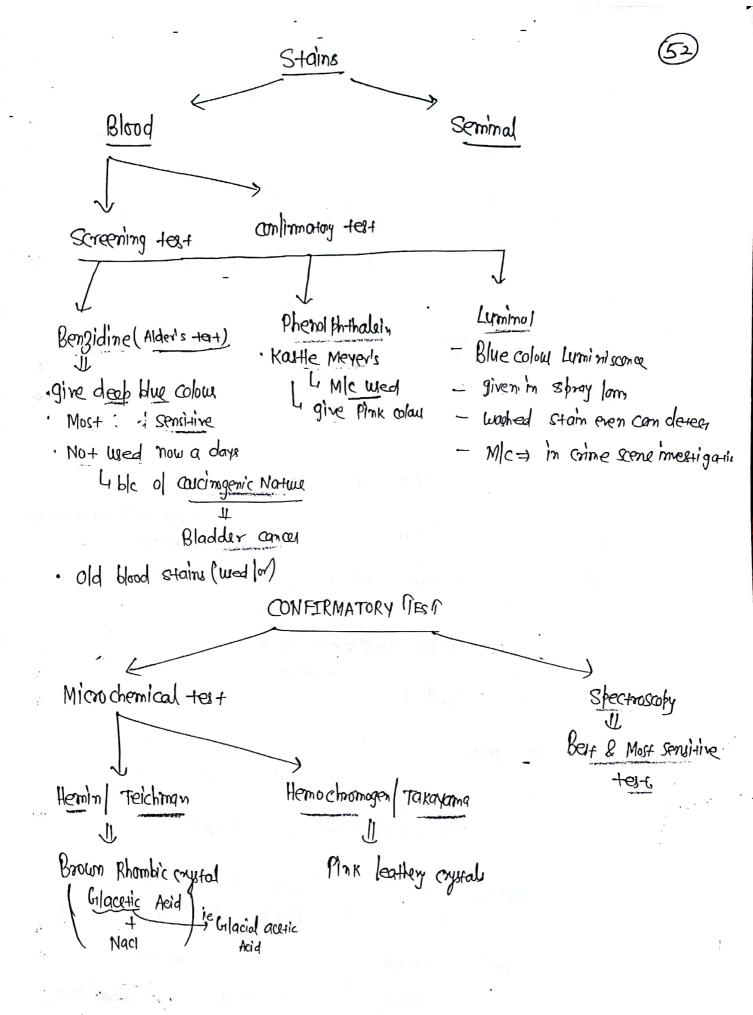
Hanging & a drop; (b) Ligature Strongulation; (c) Manual strongulation;

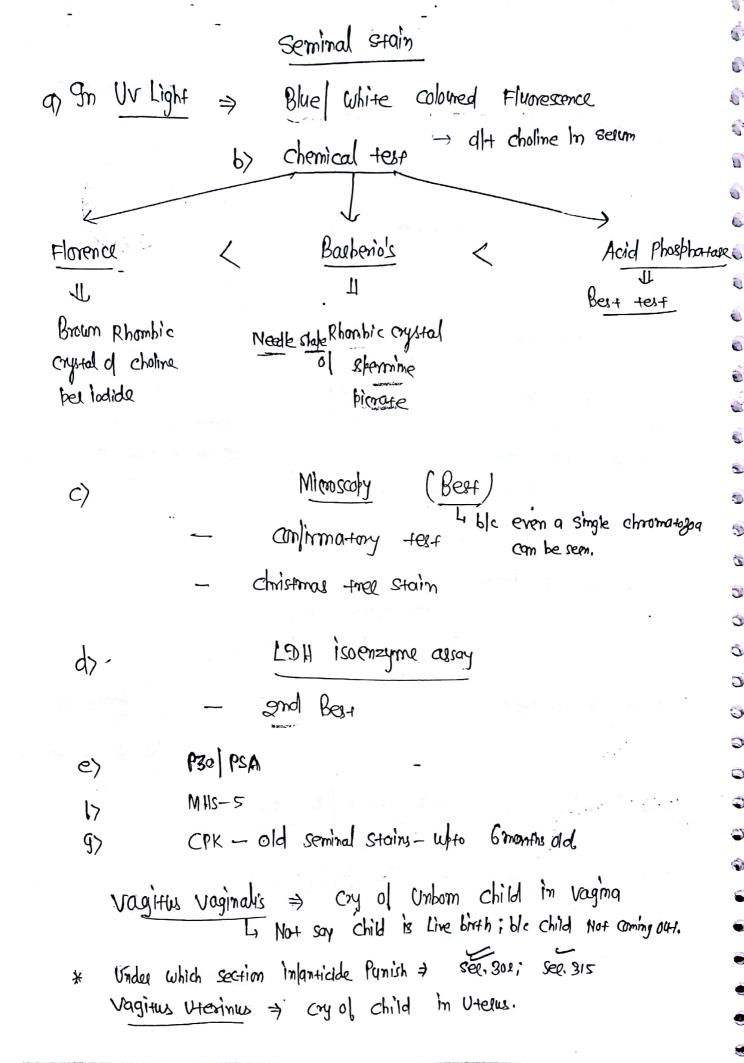
1 Tranmatic cuphyxia

Following are the characteristics of Ligature Mark of lixed Noove in hanging Except that they: 1 (1) Are oblique; (6) the antinous: (6) the high up on the Neck;
(7) Show Parchmentization

Tes in what is suggestive of Antemortem drawning ( ) Strontium; ( ) Mg; ( ) K; ( ) Ca

Pooblem is with Still	Bom	- Live Born
Position by Diathragm!	3-4+h Rib	6-7 <sup>th</sup> Rib
(That's why we open abdomen 1st in Inlanticide)		
Fodere's test static ; test (weight of Lungs)	— — — 30-40 gm	60-70gm Why? b/c d blood
) Ploucaue+'s +tes+ !> Ratio of w+ of Lungs: w+of body	]; <del>7</del> 0	1:35
Breslau's 2nd Lile test :	(No+ pr+)	(Air is br+.)
) Werdin's test !		<b>(</b>
Hydrostatic Flotation test ka) Raygat's test 'irev" as control)		<b>⊕</b>
3+ lor Residual Aiv  (SIB) False & Ray  Artilicial V  Decompositi	entilation	IB) False © Raygati tess  · Feeble Respiration  · Alveolas Membrane (prevented  Air ent sy into alveoli)  · AROS  · Atelectais.





Medullary Index <1/3 ( width of Medulla ) ( Width of Correct )

>1/2

Evenly distributed Agment

New the Medulla

Sexual ollences; \"i

Wi crime;

Hit & Run case;

gdentilication of Race by hair!

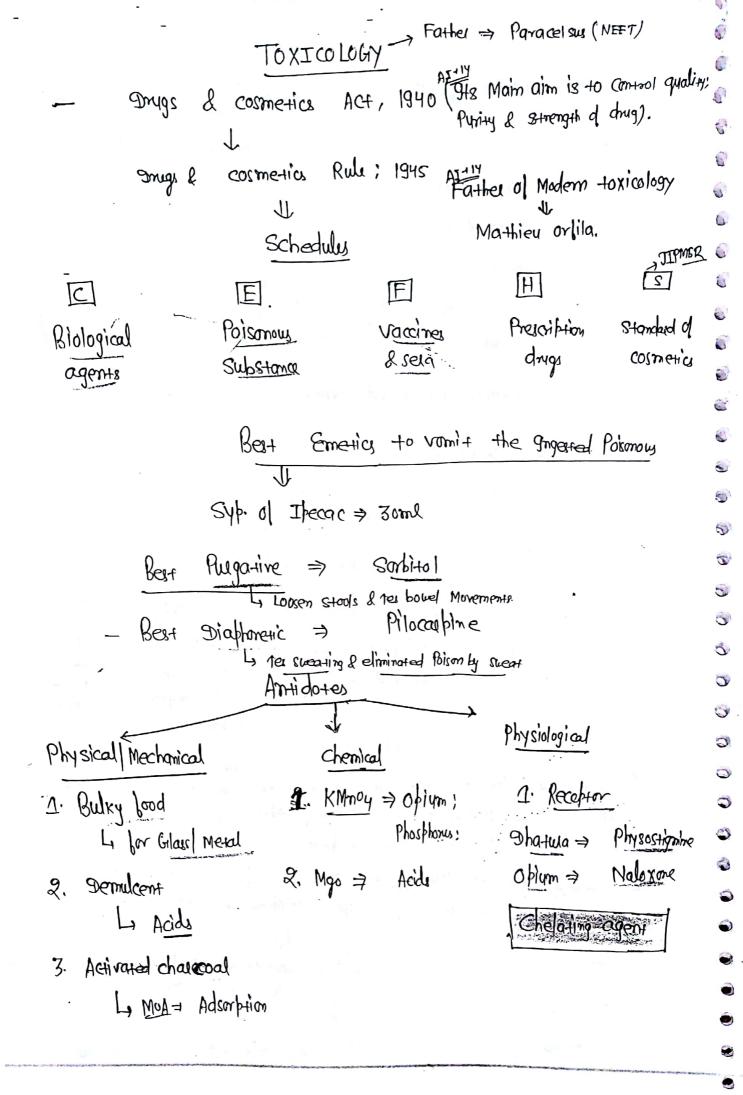
CHINESE & TAPANESE EUROPEANS NEG ROES MAICHP Wooly ; Straight; black; · Straight; black, · Straight; Cyrly; Light Brown; Long & line Long & thick black. Raddish organy Short 2 thick d Short

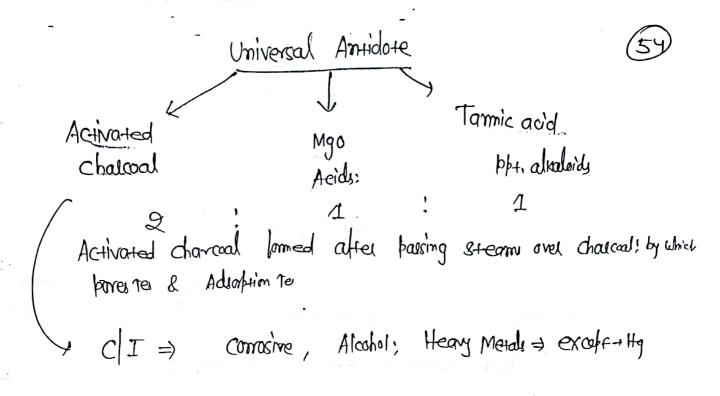
## LEGITIMACY

- (A) Superleamdation :=> Two ova Released in Some cycle; Fertilized; either during same act of coitus or during the separate acts,
  - Possibility of their having two lathers
- · Superfactation : During the continuation of development of Fetus; Another ova Released in subsequent cycle get fortilized a starts developing as a second betw. Thin having two fathers; Cam Result im 7 Two children being born together & dillerent stages of development; Formale May deliver twice Tim 1-3 Months

Supposition child !=> Fiction claim of child

Posthomus child > child born after the death of his biological father





Glastine Lavage

Tube

Children

Ryle's tube

MIC Adults Best

Ewald | Boar | Edlich | Lavaran tube

Best Position to do Chastric Lavage > Left Lateral

Best Fluid to Start Chastric Lavage > Plain water

MIC Fluid used in Gastric Lavage > Normal saline

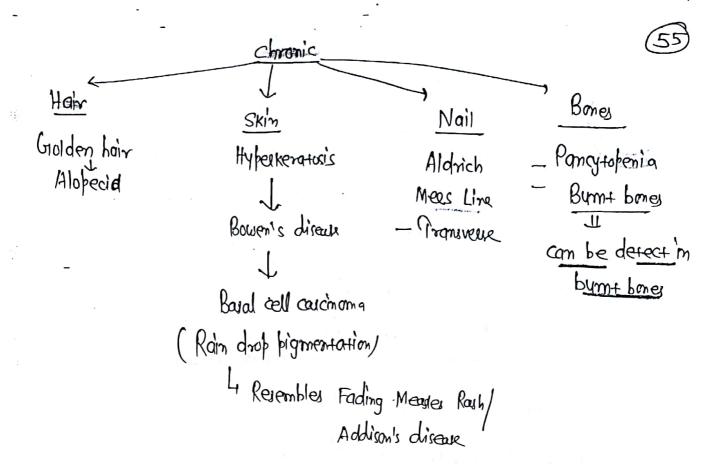
KMmoy wed in 1: 5,000 dilution

Golden Period lar doing Gastric Large => <3 hrs

-> C/I -> Corrosine -> cause Reporation -> except -> Phono! |
Carbonic act

Leathery | thickened &

Relative CII Kerasene Convulsant Arrian vulsant Coma Hypothermia Lower exphageal variees Stomach open Stomach along greated Street Magen 8 trasse > Stomach Street auvatyre. taken by poison in the stomach As Poisoning White As; Sankhya Fatal dose - 0.1-0.29m King of Poisons Fatal Perial -> 1-2 days Napoleon dies due to As Poisolng Poison of King tolerate As wHO - 0-3 gm Airsemophagis+8 Clinical leature Chronic Acute Fulminant Death (24hr 3-5 gm As Consume Death Ellin 3 hrs Narrotic Gastroemeric losm convalion; coma Cholera Cholora Liver > Mic organ has As (Marin onen) Sequence desympton Throat Pair \* Brain has least annount of As. Kidney



- also causes Fatty Liver; Symmetric belighered sensorimeter Never pathy;
  - Catarrhal Sign (Resembles Common cold i-e conjunctivitis; Running Noses leyes; coughing etc)
  - Black loot disease = As Poisoning
- Viscorg-preserve in As Poisoning > Hair, Skin; Nail; bone + Routing

- Test > Remsch > - Marsh > Grufgeif

TOC => BAL | Dimer caprol ple cause Fat embolism

Ly Deep i.m. (No+ i.v.)

Cli in = Fe, cd; seknium

- PM appearance => Stomach - Red Velvety;

Heart - Subendanudial the Hemanhage

4 also ha Afirminia bloshhide & Rivering

# Ideal Homicidal Poison Thallium Le Resembles "Gullian - Barne Syndrome" Le Peripheral Neuropathy A lopedia S kin Rash

Mc Homicidal Poison > As

Glead Suicidal Poison > CN

Painless death;

Mc Suicidal Poison > Opc

Mc Method of Suicide > Hanging

Para - Suicide > Mc > Drug ingestion

Li Hern ast; Rich seran

### MERCURY

Organic Merany

In-organic Mekuy

Methyl Mercuny
Ly Most Poision

Hgcl2 - 1-4 gm 4 Fatal dose

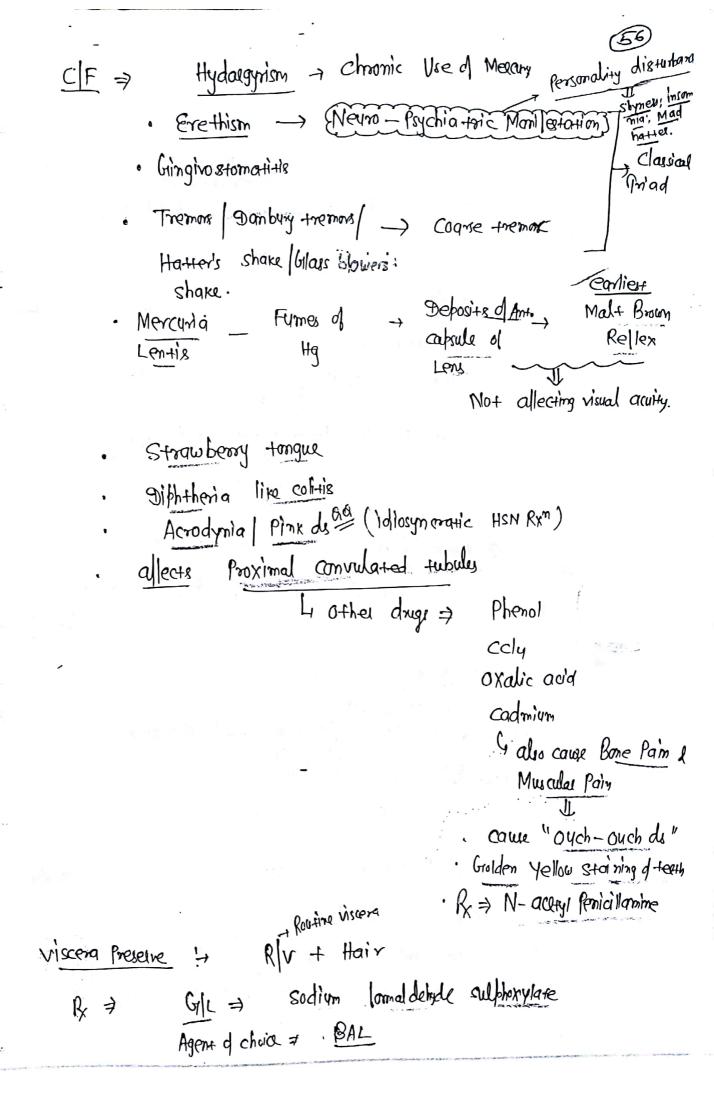
In Minimata disease

Mercinalism : i.v. mercuny inj.

Thrombophlebi-118

Granuloma

Pulmonary emboli



EDTA 18 CII E H9 6/09 EDTA 18 also Nephrotoxic. \*

LEAD => No heavy Metal is Poisonous in Native long

Lead actate (Sugal of Lead) => Fatal dose => 20 gm

=> Fatal dure => 40 gm Lead carbonate

· CF = · Anemia · eqrlies+ sign > facial fallor

· Eosinophilia

· Basophilic Stiffling

Lead lines in Metably seal place = Recurrent Growny Arthritis

Chronic poisoning => Plumbism | sarumism )

Box-tonian Lines => Blue Lines @ texth & gum junction Ly Seem also in => Hg; Bi; Ag; Fo; Cy Lines 4

Cabot's Ring

Colic & constipation soon; very Rovely diamhoea

Encephalopathy => M/c in children 4 Malmy dlf Term ethyl lead

Pure Motor Neurobathy > Least complication of Land Poisoning

Stellity => in both sex

wist & foot drop >> Lead palry beitheral Neuropathy - only in 10% of ages

6

6

9

6

•

5

0

Diagnosis >> By Measure

Blood Lead level > 10 kg/dl

· Volne test > Tes coproborbhyin (cpu) Levels; of 0.25 mg/L of Lead

R !=> 1. Succimenta DMSA

18 diagnostic

Given orally; Least Nephrotoxic; useful in

2. Can EDTA + BAL

3. Can EDTA

9n - Lead enaphalopathy ; i+ 18 - 1700

Least toxic compound of lead = Lead sulphide

Most toxic compound of Lead = Lead - Acetate

# Binc (Metal Firme Ferel)

- Resembling Malasial chills: No wherzing
- Sell-Limiting Influenza-like syndrome

Mm (Mangenese)

- Parkinson's Like disease

## Iodine

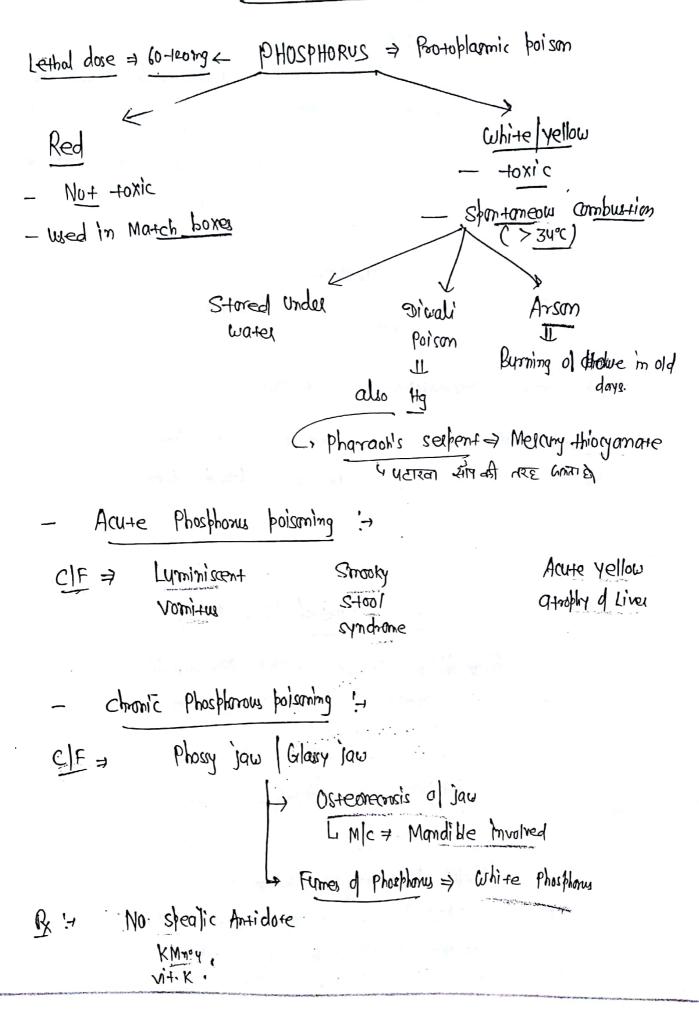
- Painful Parotitic resembling Mumps

Ry = BAL -> Penjathamin copper => As a Metal Non-poisonou.

Copper Subacetate => FD: 159m/ FP=> 1-3 days

copper sulfhate => Fo: 30 gm | · Blue-green vomiting; Puble (blue-green) line

# Non-Metallic Poisoining



1

3

C

# Vegetative Imitants

Abrus Precatorius (Ratti)

Selds - Cu+ => 108 ang 4 K/au" Grynchi; crab eye; Roseny lea". Active principle => (Abrin) => it is Toxalbumin; Ricin; motion

Resembles Viber venom T, Vasculotoric

Medico-legal importance > Making "Suis" Lived to look like viter ble (..)

Artilicial Bruise => Wed to cheat labely

@ Plumbego; @ Dithrinol B calotropis; A Semicartow Anacardium (Mauxing Nut) Li Active Principle => Semecarpol & Bhilawanol > A/P => Gigantin (NEE ?16) used by washerman to Spanish Fly Cantharides Blister beetle Mark clother.

Active Principle => comtharidin (Aphrodisiac)

1es the serval derive

Priaprism - Pessistent beintal Penile exection ·CE > also seen in scarpion sting

Blisters

Coulom Monoxide (100),

Americ Anoxia (blc it Reacts 200 times More tightly a tho than og & Caule Anemic type of hyloria) AI-14

1st (41.) - Headache

\* 40-501. CO - AC. Intoxication (symptom Resembalance)

- Death oll+ Respiratory Great, 801.00

CO

Dx => Kunker's test (Tamnic Acid); - Hobbe-Seyler's test (104 NaoH)

Rx => Hyberbaric Oxygen.

PM => Degeneration of Grabus Pallidus; Fine Poth @ Mouth & Nose;

PM ⇒
examination

egeneration of Gilobus Pallidus; Fine Proth & Mouth & Nose;
Bright - chemy Red discolouration.

\* Upper Limit of safety of com Air > 0.01%

# BARBITURATES

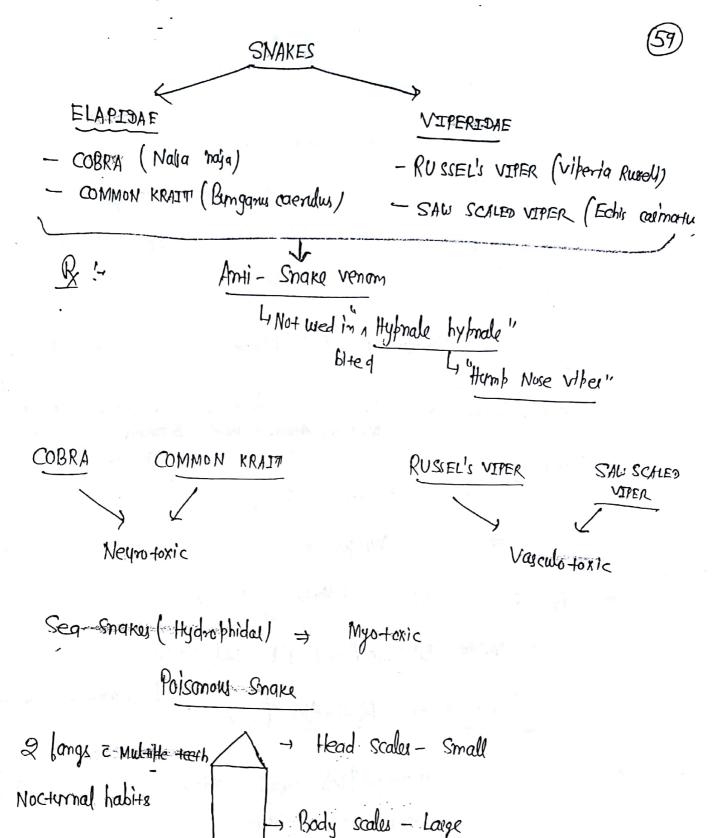
- Hypothermia, Coma; Non Reactive pubil

-R: Forced Alkaline divresis ag

\_ Automatism > Accidental religioning

\_ Golden Urine > Urine is golden in colour

Liquid gold



7. Pail - compressed

OPION 7 CINES JAICE OBTAINED BY MOSTON OF	40
- AFTINI MAGNINI CHANGINI	
- AFIM MADAK CHANDU	0
- Unribe bruit of Papaver Sammilerym	
- Bhuki Lancing	-
	0
tongituded incision of	h
Drug obtain Iron tongitude la	
bobb & blosic	4
	0
- CIF = Drowsiness; Resp. disorder; Pin boint Pubil; Coma	1
	6
- withdraw leature > Drowsiness; Rhimorrhea; Lacrimation; Grosse Herh	
Mydrianis (dilated pufil); In sommia; Yauning; Muscle	
- Fatal dose > Oblum - 2 gm cramp & body pain; Rise in	n '
Morphine - 0-2 gm	9
$-9x \Rightarrow Malguis +est$	3
That fails it com	(3
- R => G/L - KMm04 - 1:500	3
	3
Li Soc > Naloxone (i.v.) Ilb oral Naltrexone	3
Ly low Main at	Ġ
& of withdraw => Methadone (soc)	3
	3
HEROIN (M/c abused opioid).	
SMACK; JUNK; SOPE; BROWN SUGAR	
- Diacetyl Morphine	
•	
- Designer drugs	2
- Shooting galaxy -> Authorised blace where to administrate the day	•
i.v. => Majoliped'. Chof	9

	. <del>-</del>			
•	HOT SHO	M	$\Rightarrow$	HEROIN
	Chasing	ol	the	dragon
R	<b>→</b>	0	clonic	
			`	orphine;
			EutaZo	iane.
•	lov	o by o	s cyamlr	icine. ne; Hyosalnel EFVING A
	AP	i a	STUP	EFVING A
Dho	2+47a] ⇒ea	Mies 12/12	1 Sym	tom COC
· Roadsid	de Poison	<i>γ</i> . ε	the Mi	00+h·
Stature Stramo	nium ⇒ Th	70 <b>7</b> 71	Apple	1
Fatal o	lue > lo	70 SE	edi	. ! ,
Resemb	les c	hilli	eed,	,
J.	4		Inan's	hand
· Embryo	of Dhatun		<del>آ</del>	
- Embyo	d chilli →		cywes (6)	1 inwards
· CIF >	Dilata	d P	ubil =>	Diplopia
				ly heathermia
	Delivium =			
				Movement
•		C	arphologi	a(
$Q_{r} \Rightarrow$	Phy soc tign	mine		

```
(scopolamine) & Atropine.
GENTS
ame-
                        Cannabis
oke, Snow; andillar; white lady
  Snorting
                           Smoke
                            11,
                         CRACK
                         L Max sie of cocaine
                            dl+ smoke
  · Hall-liked cocame = 1 hr.
· Cocaine+ Herolne > Speed ball
 'C|F ⇒ Black tongue & teath
         Perforated Noval septim
         Excited delinium
          Hallucination (Visual > Gactile)
                  Magnan's symptoms | cocaine bugs
       formication > Any Hallucination who
        4 also seen in
        Engot Poisoning => St. Anthony Fines
               About Nieste: 2 mbling Signica
```

STRYCHNINE

# AMMH NATEND LANAUCTIRAM STERMINAS

7

3

9

Active Principle > 19- Petra hydro Camnabinol

Ag Smell > Byrn+ Rope Smell

Manijuana cigratte | Reefors | Weed | John + 10-6 hrs

ii) Amotivational Syndrome => Abothy; Loss of interest: Reduced time.

| lii) Flashback phenomenon; >> below exherience the leasure of cornabis we flow actually wing is.

\* Least toxic: Bhang: Fatal dose: 10 gm/kg Body Cut.

\* Most toxic: Charae: Fatal dose: 29m.

http://mbbshelp.com

# HALLUCINOGENS

1: LSD > Puble heart; Mind expander; Grolden dragon,
Ly Pt. hear the colour? - Synestheria
Ly Mixing of sensation

- taking a trip

- Flash back phenomenon

4 also in Commabis.

2. Angel-dust => PCP | Phonogolidhe

3. Rave drugs > M/c > Ectasy (MOMA)

PSD PHB

Amphetamine

Methcathinane = cheaper & alternative to every

4 ( Meow - Meow)

Ketamine

4. Predator drugs Date Rape drugs > M/c > Alcohol

Barbiturates

V

Ruhyprol (Flyningeham)

Chloral hydrane (Knockout drops)

Mickey Firm

Japense detergent Suicide > Hes gou

Combination of Alcohol of Chloral hydrate

TIPMER.

Hair dye Poisoning

d1+ b-phenylenediamire

Sewel gas

Came Allergic Rxm;

Renal Jailue

H25.+ CO2.+CH4.

# Cardiac Poison

- In all cardiac Manilestation Rate | Rhythm

U

R

Atrophne | symptomatic

but in Amblyopia

- but in Amblyopia
Tobacco => Smoker's healt

- Respiratory symb => Cyamide gnhibits arbonic Anhydrage

Ly Histotoxic Anoxia

"Lee Jones Tes+"
Wed for Cyanide Poisoning;
to differentiate it from
Salicylate Poisoning.

Achlorhydric Individual - 9mmune Double salts are Non-toxic KCN- FD-0.2-0.3 9.5 FP-2-10 m/n

Tymalcomaxia; Prigeminal Neuralgia = Digoxin Poisoining

Aconite Poisoning

Ly Ria "Monks Hood Mitha bish (MH12)

Blue Rocket".

Chest Palm

Roots is most potent 6/b Seed.

Hypersalivation

Hypotension

Geath dlt paralyni d Respirator center

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OLEANDER Yellow White Cerebra Theveria Nerigm Alp -> Therein

Asphyrial death & black colow Mucosa > Cyamide Poisoning

POISONS SPINAL KUCHILA Strychnou Nux vomica

Strychnline; Brychne Alp ⇒

1 Coushed seed (Unmushed seed is Not digeste Fatal doie =>

Amerior Homael Shinal and

Inhibitory interneum,

Rellex excitation

mudes are allected @ same time CF > clear blu convulions (GITTC) Conscioungs -

Spinal postures => A. Opisthotonu (=)  Backward Arching of spine  B. Emprosthotony  Forward Bending  C. Pleyrosthotony  4 sideways Bending
Biazeram; closed dalk Room  Antidote for straychnine Poisoning => Short Acting Barbleway  Phonobarbital.
Alyminium Phosphide (Alphos/celphos)
Each tabo- $\omega + \Rightarrow 3gm (3gm of Alaminium phosphide liberates 1gm de phosphide).$ Alaminium phosphide = 56.1.  Phosphine gas $\Rightarrow$ Igm FD
- MOA ⇒ Gnhibits Cyto·C oxidate a  - CIF ⇒ esophageal strictule is Myccardial Necrosis  - R ⇒ Symptomatic hypomagnessemia
- 9x => Silver Nitrate Paper tou
- PM => Subendecardial Remontage  Flame shape Remontages
Me came of death > Cardiogenic Shock
K Aluminium phosphite & hypophosphite all Non-toxic Salts

## CORROSIVE

Acid

21 More dangerous

Alkali

Coagulative

Liquilactive Necoos

Nemosis

Stomach

MIC damage organ

Sophagus

doesn't come

by "#F"

To damage by " Liquelactive Necosis"

Vitriolage (Aeid Attack)

326(A) IPC

1

Acid attack

1042 to 116 imprisonment

326 (B) IPC

1

Aftempt to acid affack

5yr to Tyr Phishment,

SULPHURIC ACID (oil of Vitariol)

everything black except & teeth & Chalky White

FD = 5-low

FP = 12-24hr

Grastic Perforation - Common wet blotting paper like consistency

R:4

weak alkali; Mgo

Steroids Ly ble we can't Neutralize Strong acid & Strong alkali (as it is Exothermic).

4 Prevents Long ferm amplication Like Csophaged stricture

COD In Adults => Rellex vocal shown

Nitric Aeid

- Stains all the GITT & tissue & Yellow colour

"Xantho proteic Reactions"

- Brown discolomation of Urine.

- Inhalation of Furnes > Lacrimation
Photophobia

Bonic Aeid

- Alw "Boiled Lobster syndrome".

Oxalic Aeid (salt of some)

- Wed to Remove Ink for largery.

C|F ⇒ pc71 damage, ltylocalamia,

Oxaluia => Enveloped shape cystals

R => 10% ca gluemate 10 mliv

C|I= Large Amount of water

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# CARBOLIC ACID PHENOL

- Miosi's
  - Lock jaw
  - Delay Putre lactions
    - Lalso by Antimony; zinc
- Carboluia

L) Colouless my binen

dl+ hydroguinone; => oxidized
Pyrocatechol in Air

Ou Chronosis (Blackish bigmentational cartilage)

Chronic - Phenol Marasmus

Hemodialysis

Ako indicated in

CLI in

Barbiturate

Kerosene

Benze digzepene

Strychnire Theophylline

C copper sulla-se

Colour of Stomach Mucosa in different Acid poisoning: \*

> Black -> H<sub>9</sub>SO<sub>4</sub> <

Brown Leathery -> Phenol

Yellow -> HNO3 \ All these damage caused by White -> Hcl \ Coagulative Necrosis

Methyl Alwhol Accumulation of Formic Aeid Mood Alcofol Formic Aeid Lactic Acidosis | High Anion gat Metabolic Acidoris Abd. coamps Obtic Neuritis (irreversible) 60-200 ml Hooch tragedy Formebizole => 4-Methyl Pyrozole R 9nhibi+8 alcohol dehydagenase Ethanol > given both as iv oral Blc it competitively inhibits the convenion @ Hemodialysis of Methanol to Jamic Acid

Folic Aeid or Folinic acid enhances the Metabolism of Formic Aeid to case

\* Methanol concin is high in "Illicit Alcohol". Illicit > Forbidden by Law;

Rule or auton.

ALCOFFOL > Rectilied alcohol > 90+ Alcohol

Absolute alcohol > 99-5-1. alcohol

Maxm alcohol content is by. In which had drink > vodka(60-70+)

Absorption => Stomach -1 20.1.

9n-ter-line -1 80 1.

Metabolisation => Liver -> 90-1.

4

4

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3

9

0

Excitement

In co-ordination

Stages

COMA

Blood Alcohol content · BAC < 150mg.J.

150-400 mg.1.

> 400 mg-1

· Alcohol gaze Nystagmu

· 40-80 mg 1.

- Under the influence 4 80-100 gray. 210 J.b.C

L) Creating Public N'uisance under Intoxication is Rymishable 24 hr. tail + 101- Fine

Windmark's Formula

\* In Stage () & ! Pupil is dilated

Stage 3 ! Pubil is committed

4 There 1811 MacEwals SI

a = Amount of alcohol in drink

b = body weight

R= constant

conord alcohol in blood

Stimulation of bourn comes Pufil to dilate a Returnto constricted pubil.

Where do you expect higher Amount / conon of Alcohol ? Blood Use (3:4) OR (1:1.33)

· FD: 150 and of absolute alcohol.

Alcoholic Bbckou+ = 80-100 mg + 01 BAC

Kozelka & Hine

Tes+8 Carettiz Breath Analyses

Henry's Law (Basedon)

Potassium dichramate

has chrumatogra Best.

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#### Legal Limit while driving < 30 mg .... 7 45-60mL Legal age of drinking Alcohol follow Kmelica zero order tende 40 15 mg / 100ml/ hm Rate Metabolism: ol 9PM <u>(8)</u> 6 PM 100 mg of. Ś 1 145 mg +.

ORGIANOPHOSPHORUS

Anyl phosphatase

Anyl phosphatase

- Parathion (Follidol/Nitrassigmine)

- HETTP (Hexa ethyl tetra phosphate)

- Paraoxon

- TEPP (Tetra ethyl pyro phosphate)

- Diazinon (TIK 20)

grreversible hyphosphorylating

The Catalytic site of enzyme. It hydrolyze "Ach".

CIF > Chromolacyonhea : Shedding of Red colow tear dl+
Abnormal porphynin Metabolism.

Lacrimation; Miosis ( pin point Pubil) : Palmonary edema

Salivation: Muscular lauciculation:

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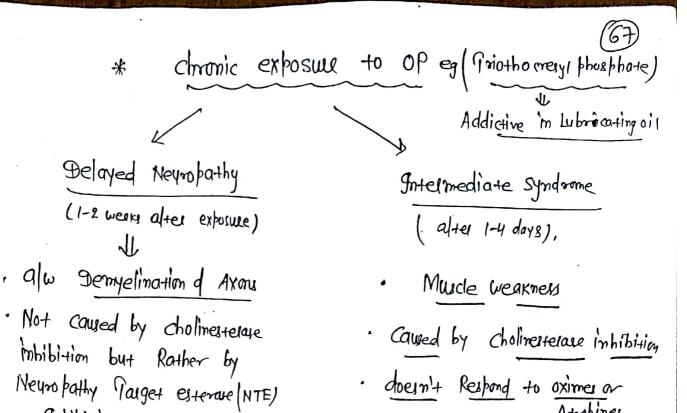
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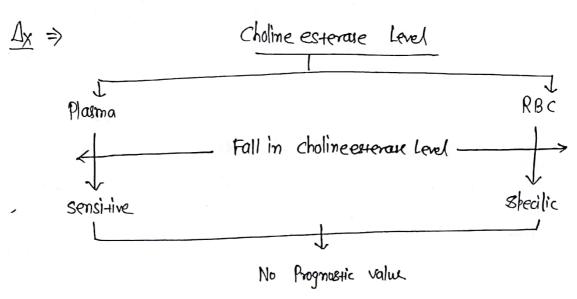
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Q ⇒

Inhibition

(i) Activated charcoal;

TH of choiα ⇒ Atropine Sulate

3) Oximer (Pralidoximes)

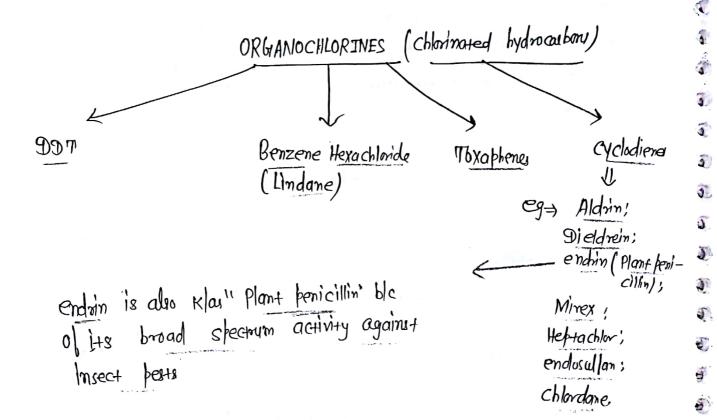
4 causes Resp. depression.

#### CARBAMATES

- Reversible Inhibitor of Cholinesterase

- eg > Physostigmine; Newstigmine; Edrophonium;
Carbanyi; Propoxu.

Atropine; Oxtime



#### NDB ACT, 1985

· Narcotic Drugs Psychotrophic Substance Act, 1985.

Govern only Narcotic & Psychotic drugs.

Nicotine is Not Cover under Nops Act.

NDPS ACT : () Embegglement of objum is an offence.

Embegglement of Any other is Not ollence (anly objum is an ollences).

(No+only Prinishment; but also)

#### DRUG TRAFFEKING

Body Packer @ Body Bag: Person who transport the drug;

Pusher: Person who distributes the drug (distributes to clients)

styller: consume the drug for the fear of being caught.

Client Abuser: consume the drug for satisfaction.

#### COMA COCKTAIL

- Given to bt. Who comes & coma & Unknown history.

- Consist of - Dextrose - Hypoglycomia

Naloxone - Oploid Induced coma

Vit. B. / Thiamhe - Alcohol Induced coma

DRUGIS & COSMETTE ACT, 1940

Amended by Drugs Act 1964 to "include Ayuvedic & Ungrid drugs". (AI+14).

The Label or contained of Medicine Should display the formula or a list of inaredients contained in the drug.

4

SMELL OF POISONS Bitter Almonds CN ( cyanide) Garlic Like Arsenic Kerosene Like OPC (organophosphates) Rotten egg H2S Fishy znp(zinc Phosphide) Burn+ Rope Cannabis => Shoe Polish Nitrobenzene Paraldehyde | chloral hydrate => Acrid | Pears

Kla "DRY WINE"

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